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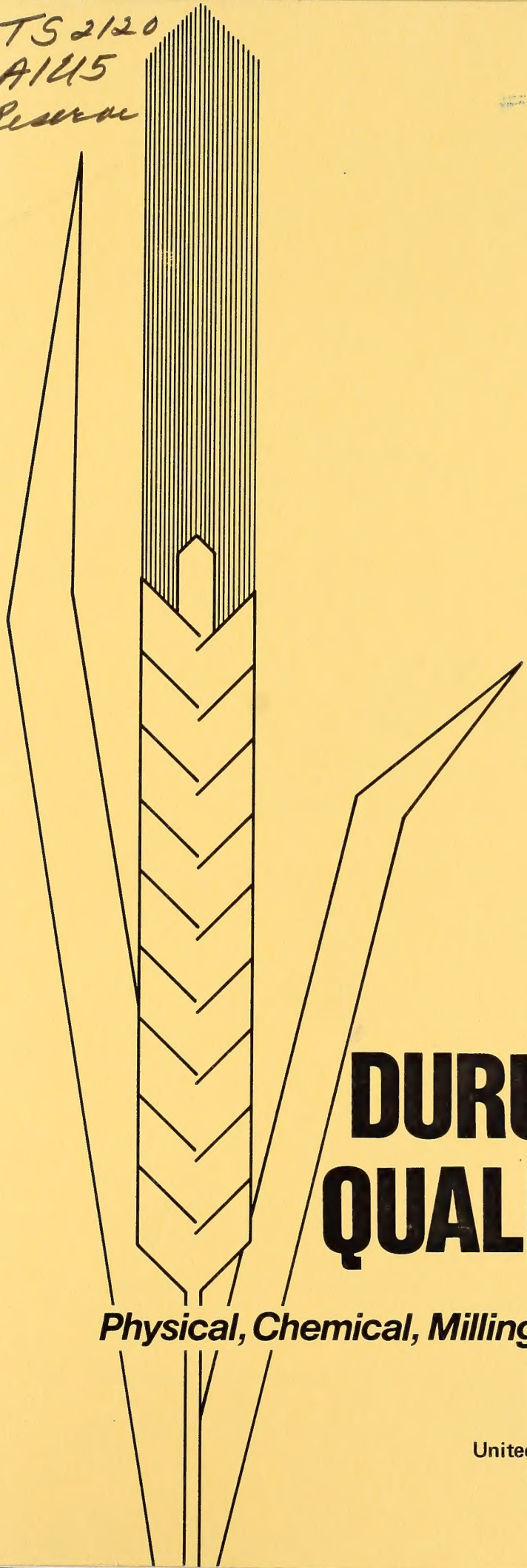
**1982 CROP**

PROCUREMENT SECTION  
GRAIN & FEED DIVISION

# **DURUM WHEAT QUALITY REPORT**

***Physical, Chemical, Milling, and Spaghetti Characteristics***

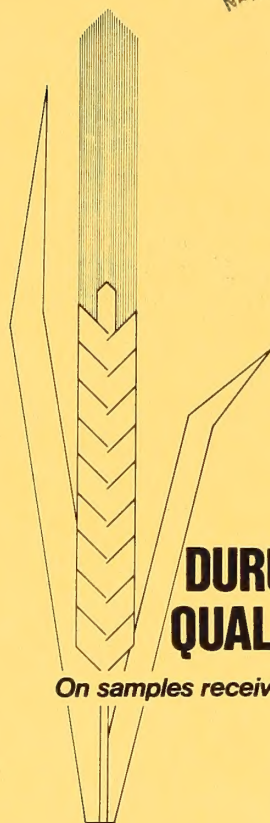
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## **DURUM WHEAT QUALITY REPORT**

*On samples received from the 1982 crop*

**Source:**

Spring and Durum Wheat Quality Laboratory  
USDA, Agricultural Research Service  
Cereal Chemistry & Technology, N.D.S.U.  
Fargo, North Dakota 58105

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
in cooperation with  
STATE AGRICULTURAL EXPERIMENT STATIONS

QUALITY EVALUATION OF DURUM WHEAT VARIETIES

1982 CROP1/

by

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1/ This is a progress report of cooperative investigations containing some results that have not been sufficiently confirmed to justify general release; interpretations may be modified with additional experimentation. Confirmed results will be published through established channels. The report is primarily a tool for use of cooperators and their official staffs and to those persons having direct and special interest in the development of agricultural research programs.

This report was compiled by the Agricultural Research Service, U. S. Department of Agriculture. Special acknowledgment is made to the North Dakota State University for their facilities and services provided in support of these studies. The report is not intended for publication and should not be referred to in literature citations or quoted in publicity or advertising. Use of the data may be granted for certain purposes upon written request to the agency or agencies involved. Cooperators submitting samples for analysis have been given analytical data on their samples prior to release of this report.

2/ Hard Red Spring & Durum Wheat Quality Lab., NDSU.

3/ Dept. of Cereal Chemistry & Technology, NDSU.

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## INTRODUCTION

The nineteenth Durum Wheat Quality Report contains data for the 1982 crop. Samples of standard varieties and new strains of durum wheat grown in cooperative experiments in the durum wheat regions of the United States<sup>4/</sup> were milled and evaluated by the Hard Red Spring and Durum Wheat Quality Laboratory in cooperation with the Department of Cereal Chemistry and Technology on the campus of North Dakota State University at Fargo, ND. Methods and techniques are described in detail in the text of the report.

All samples received that were large enough to mill on the Buhler experimental mill were processed into spaghetti using the macro spaghetti processing method as described on page 12. A five pound wheat sample is required for the above method. All other samples were milled using the micro procedure and were not processed into spaghetti. Those samples having acceptable kernel characteristics and dust color score, if possible, should be included for macro processing the following year.

The purpose of this report is to make available to cooperators the quality data on standard varieties and new selections of durum wheat from the 1982 crop.

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<sup>4/</sup> Busch, R. H. and Cantrell, R. G. Wheat varieties grown in cooperative plot and nursery experiments in the spring wheat region in 1982. Agricultural Research Service, U.S. Department of Agriculture.

## SOURCE OF THE 1982 CROP SAMPLES

Thirteen hundred eighty-six durum samples were received from 18 stations and eight states (California, New York, Arizona, North Dakota, South Dakota, Minnesota, Montana, Washington) for quality evaluation. However, data on 222 of these are not included in this report, because this information was of interest to plant breeders at specific experiment stations only.

### UNIFORM REGIONAL NURSERY - 199

Selby, Watertown	South Dakota
Williston, Dickinson	North Dakota
Crookston, Morris	Minnesota
Bozeman, Sidney	Montana

### WESTERN DURUM NURSERY - 63

Tulelake	California
Pullman	Washington

### FIELD PLOTS - 86

Kings Co., Imperial Valley	California
Mesa	Arizona

### ADVANCE NURSERY - 141

Imperial Valley, Delta	California
------------------------	------------

### PRELIMINARY NURSERY - 675

Aurora, Ithaca, Livingston, Itala	New York
Imperial Valley, Tulelake	California

1982 UNIFORM REGIONAL DURUM NURSERY

LIST OF ENTRIES

Entry No.	Entry	C.I. or Sel. No.	Year Entered	Origin
1	Mindum	5296	1929	Minnesota
2	Rolette	15326	1968	ND-USDA
3	Ward	15892	1969	ND-USDA
4	Crosby	17282	1970	ND-USDA
5	Rugby	17284	1970	ND-USDA
6	Cando	17438	1972	ND-USDA
7	Coulter	DT411	1974	AC, Winnipeg
8	Vic	17789	1976	North Dakota
9	7233/Ed	D7609	1980	North Dakota
10	763/73121	D785	1980	North Dakota
11	Ward/Macoun	DT433	1980	AC, Winnipeg
12	72114/Ed	D7733	1981	North Dakota
13	72114/Ed	D7751	1981	North Dakota
14	71110 Ed	D7798	1981	North Dakota
15	7224/Crosby	**D77200	1981	North Dakota
16	7507/Vic	D792	1981	North Dakota
17	7456/Vic	D793	1981	North Dakota
18	Wsc/Qf	**DT369	1982	AC, Swift Current
19	Wsc/Hc	DT371	1982	Univ. of Sask.
20	7224/Cd	**D78127	1982	North Dakota
21	7224/Cd	**D78140	1982	North Dakota
22	DT354/Cd	**D78168	1982	North Dakota
23	74111/Cd	**D78177	1982	North Dakota
24*	77169/773	**D801	1982	North Dakota
25*	77169/773	**D802	1982	North Dakota
26*	7618/773	**D803	1982	North Dakota
27*	77204/7618	**D804	1982	North Dakota

\* Grown only at North Dakota and Canada stations

\*\* Semidwarf height

1982 CROP WESTERN DURUM NURSERY

LIST OF ENTRIES

Aldura	NK000051
Anza	
Cando	CIO17438
Irridur	CIO17423
Modoc	CIO17466
Produr	
Waid	
Yecora Rojo	
CIO17806	WA6030/Crane S.160-3
D771	Edmore/Cando
D773	Edmore/Cando
TL007315	
TL007430	
TL075-16	
TL073457	
TL073468	
TL073471	
TL073506	
TL075393	67-2011/66-335/2 Sentry/67-2000
TL075409	Leeds/66-335/2/67-2011//66-335
UC353	
UC000496	
UC000512	
UC000514	
UC000516	
UC000518	
WA006518	WA6030/Crane S.211-7
WA006521	
WA006525	YT//Nor10/BUR/3/LD357/4/2*TC*2/5/YFN
WA006621	WA6030/Crane, S4-4
WA006627	WA6030/PI66897-516, S178
WA006630	PI271897-1/NDD66102
WA006755	(CP/LDDWF//LD)*2/QFNPT7505539
WA006869	
WPB00803	
WPB00806	
WPB00881	

## METHODS

The methods used in the testing of the samples were essentially the same as given in the last report.

Briefly, the following methods and terminologies were applied:

Test Weight Per Bushel - The weight per Winchester bushel of dockage-free wheat.

Thousand Kernel Weight - The 1000 kernel weight was determined by counting the number of kernels in a 10 g sample of cleaned, picked wheat on a Seedburo seed counter<sup>5</sup>/.

Kernel Size - The percentage of the size of the kernels [large, medium, and small] was determined on a wheat sizer as described by Shuey<sup>6</sup>/.

The sieves of the sizer were clothed as follows:

Top Sieve - Tyler # 7 with 2.92 mm opening  
Middle Sieve - Tyler # 9 with 2.24 mm opening  
Bottom Sieve - Tyler #12 with 1.65 mm opening

Protein Content - The protein (14% m.b.) was calculated by multiplying the percent nitrogen, as determined by the standard Kjeldahl procedure, by the factor of 5.7.

Milling - The samples were cleaned by passing the wheat over an Emerson kicker and dockage tester and through a modified Forster scourer Model 6. The clean, dry wheat was tempered in three stages: first to 12.5% moisture at least 72 hours prior to the second stage which is to add an additional 2.0% for 18 hours to give a cumulative moisture of 14.5%, then a final temper of 3.0%, 45 minutes prior to milling.

- 
- <sup>5</sup>/ Mention of a trademark name or proprietary product does not constitute a guarantee or warranty of the product by the U. S. Department of Agriculture, and does not imply its approval to the exclusion of other products that may also be suitable.
- <sup>6</sup>/ Shuey, William C. A wheat sizing technique for predicting flour milling yield. Cereal Sci. Today 5: 71 (1960).

The field plot and large advanced and special yield nursery samples were milled on a Buhler experimental mill specially designed for milling durum wheat. The mill is equipped with corrugated rolls throughout and the semolina purified on a Miag laboratory purifier. All of the stock is handled pneumatically. The mill flow is shown on page 9. The purified semolina is used in testing the quality of semolina. The semolina extraction was calculated on a total products basis.

The small samples were milled according to the method of Vasiljevic et al 7/. The flow diagram of this system is shown on page 10. Extraction is determined on a clean, dry basis.

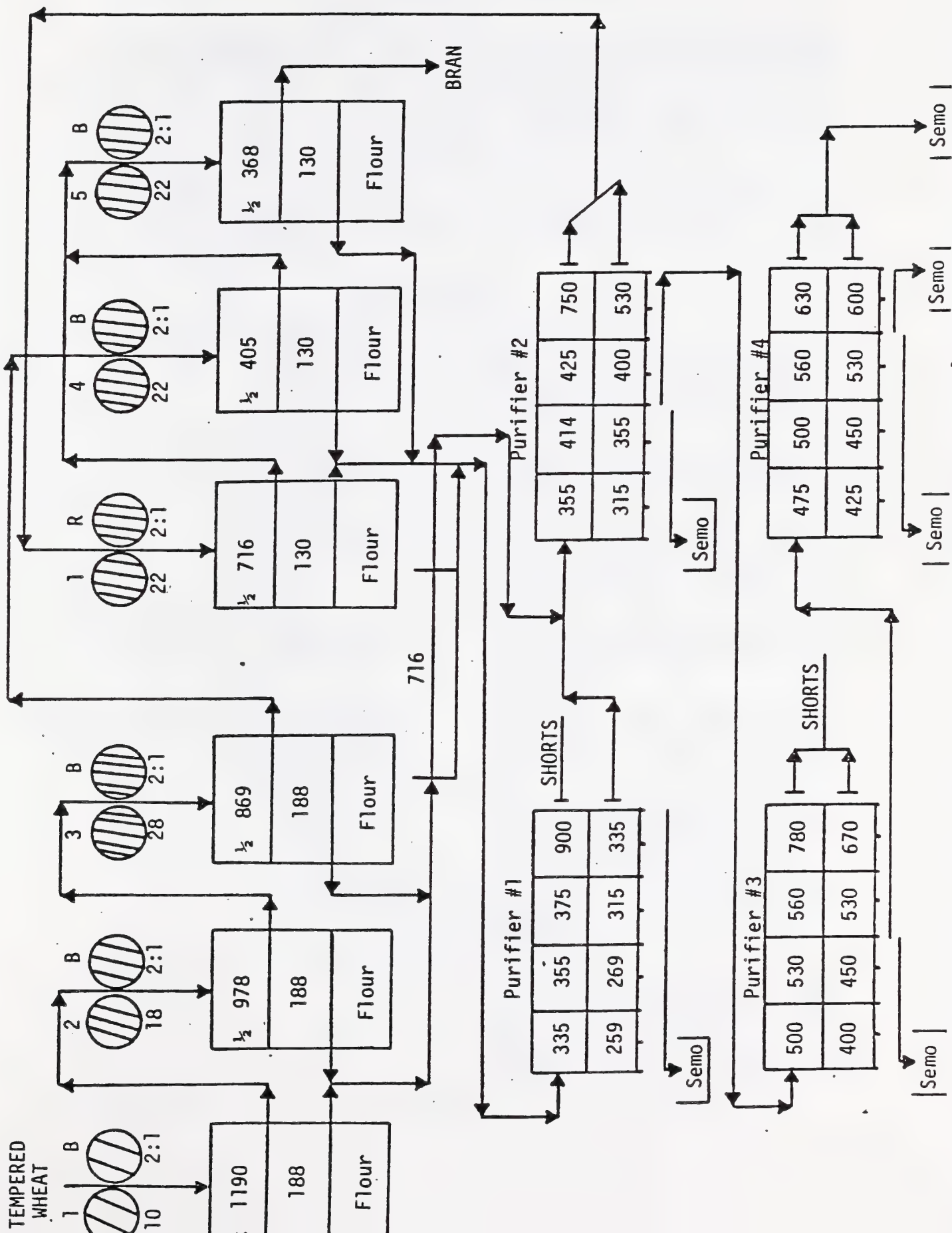
Semolina Extraction - For the macro procedure the percent semolina is calculated on a total products basis. For the micro procedure the extraction is calculated on cleaned wheat to mill.

Speck Count - The number of specks in three different one-inch square areas of semolina enclosed by a special glass and frame were counted. Any materials other than pure endosperm chunks, such as bran particles, etc. were considered specks. The average of three readings was converted to the number of specks per 10 sq in (speck count). Speck count is done only on the macro milled samples.

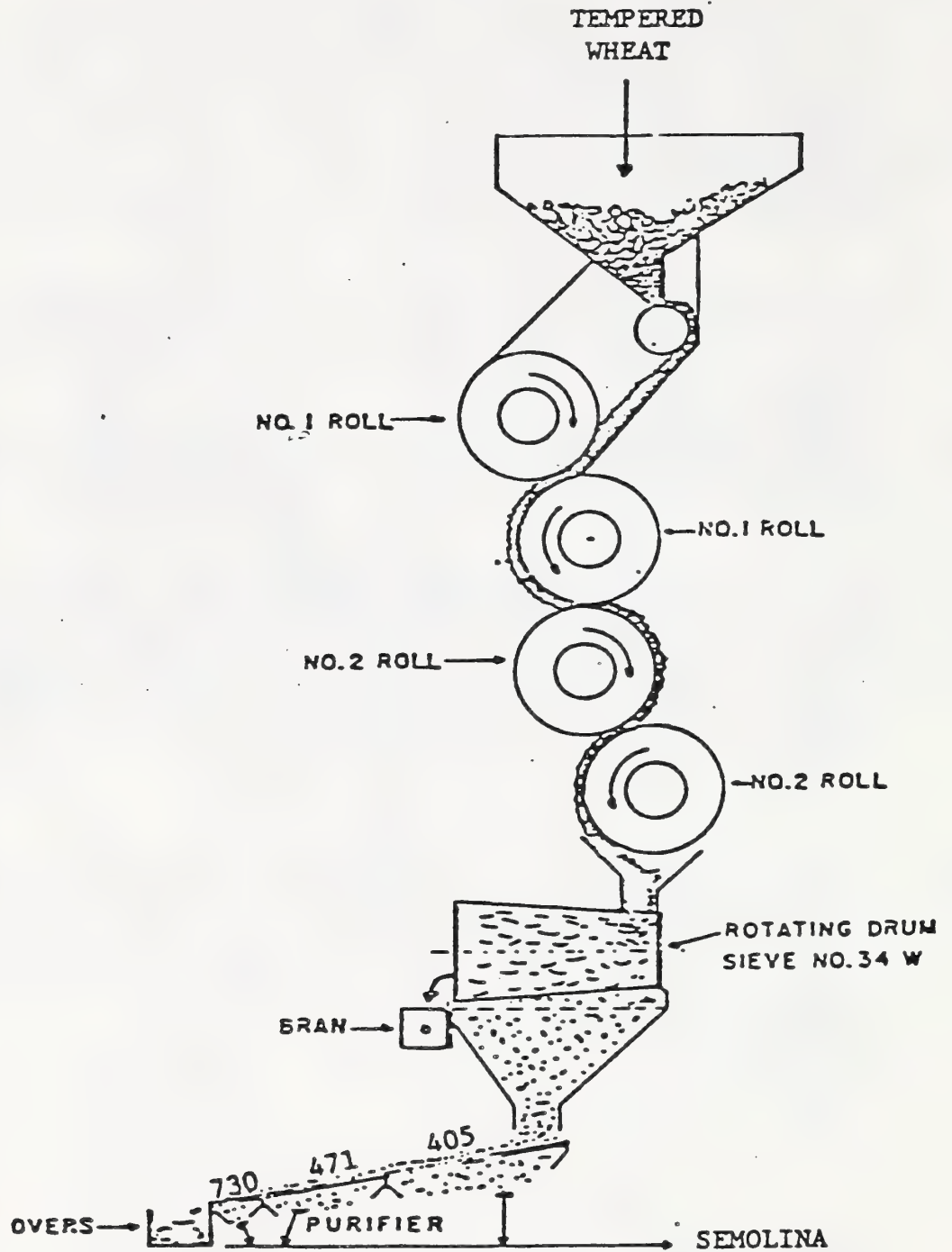
Color Score - The color of the spaghetti or semolina has been generally accepted as the most important single grading factor. A deep amber or golden color is the most preferable. The amount of yellow pigmentation determines the color.

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7/ Vasiljevic, S., Banasik, O. J. and Shuey, W. C. A micro unit for producing durum semolina. Cereal Chem. 54: 397 (1977).



# FLOW DIAGRAM FOR SMALL DURUM WHEAT SAMPLES MICRO PROCEDURE



Samples which have a color rating 1.5 point below the standard spaghetti score or 15 points below the standard semolina color score are unsatisfactory. It is possible that the average color score for a crop year may be higher or lower than average; therefore, this would be taken into consideration when giving the overall rating of a variety over a number of years.

The grading system shown below has been adopted for scoring the semolina color and spaghetti relative to the standard color score.

COLOR SCORE

<u>Semolina</u>	<u>Spaghetti</u>	<u>Description</u>
15 above	1.5 above	Much deeper and intense yellow pigmentation than standard
10 above	1.0 above	Deeper and more intense yellow pigmentation than standard
5 above	0.5 above	Slightly deeper and more intense yellow pigmentation than standard
Equal to Standard	Equal to Standard	Standard quality, depth and intensity of yellow pigmentation
5 below	0.5 below	Slightly less depth and intensity, but sufficient quantity of pigmentation
10 below	1.0 below	Slightly less quantity as well as depth and intensity of pigmentation than the standard, but still sufficient to be rated satisfactory on the basis of color
15 below	1.5 below	Sufficiently less quantity of yellow pigmentation than the standard to give a pale yellow color and graded unsatisfactory for color score.

Semolina Color Score - The semolina color score was determined by using Model XL-10 Gardner digital color difference meter. The instrument was calibrated using a yellow standard tile ( $L = 82.5$ ,  $a = -3.6$  and  $b = +25.2$ ). A sample of semolina (3/4-inch deep) is placed in a sample cup for an Agtron reflectance color meter. After the first reading has been taken, the sample is turned 90 degrees and a second reading is taken and the two readings averaged. The "b" color value is converted to a color score ranging from 1 to 14, with 14 being a deep yellow and the most desirable color. In this report, the semolina color score, reported as "DU" in the tables, is multiplied by a factor of 10.

Spaghetti Color - The spaghetti color scores were determined on a Model D25 Hunter color difference meter equipped with a D25A optical unit. The specimen area (2 in diameter) was covered with straight spaghetti strands and readings were taken against a black background with 0% reflectance. Color difference values ( $L^*$ ,  $a^*$  and  $b^*$ ) were measured for all the spaghetti samples by the method of Walsh, Gilles and Shuey<sup>8/</sup>. A uniform chromaticity chart was used for determining spaghetti color scores.

MACRO Spaghetti Processing - Spaghetti was processed on a semi-commercial scale pasta extruder (DEMACO). The control as well as all samples was processed with the following extruding conditions.

Temperature . . . . 49.5°C  
Rate . . . . . 12 rpm  
Absorption . . . . 31.5%  
Vacuum . . . . . 18 in Hg

These were the optimum conditions for processing spaghetti.

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<sup>8/</sup> Walsh, D. E., Gilles, K. A. and Shuey, W. C. Color determination of spaghetti by the tristimulus method. Cereal Chem. 46: 7 (1969).

To process the spaghetti, a 1000 g batch<sup>9/</sup> was premixed by slowly adding the water and mixing at a slow speed for approximately 30 seconds and high speed for 10 seconds, then add the remainder of the water at slow speed in a Hobart C-100-T mixer equipped with a pastry knife agitator. After all of the water has been added, the semolina and water are blended at high speed for 30 seconds; the mixer was stopped to scrape down the sides of the bowl and the blending continued for 90 seconds more to complete the premix stage. The premixed pasta was then transferred to the vacuum mixer of the press and extruded through an 84-strand 0.043 in teflon spaghetti die. A jacketed extension tube (9¼" long x 1-3/4" inside diameter) was attached to the semi-commercial pasta extruder to allow more time for hydration of the semolina and minimize the number of white specks (unhydrated semolina) in the spaghetti. Extrusion temperature was controlled by a circulating water bath.

Spaghetti Drying - Spaghetti was dried in an experimental pasta dryer for an 18 hour cycle as described by Gilles, Sibbitt and Shuey<sup>10/</sup>. During the drying period, the humidity of the dryer was decreased linearly from 95 to 60% R.H. and the temperature was held constant at 100°F.

---

<sup>9/</sup> Weight was determined as follows:

$$\left[ \frac{100-m_1}{100-m_2} - 1 \right] \left[ W - \left( \frac{W (m_2-m_1)}{100} \right) \right] = \text{Amount H}_2\text{O added}$$

where:

$m_1$  = original moisture

$m_2$  = desired moisture

$W$  = desired amount of sample

<sup>10/</sup> Gilles, K. A., Sibbitt, L. D. and Shuey, W. C.  
Automatic laboratory dryer for macaroni products.  
Cereal Sci. Today 11: 322 (1966).

## Cooking Characteristics of Spaghetti

### A. Cooking Procedure

Spaghetti (10 g) which had been broken into lengths of approximately 5 cm, was placed into 300 ml of boiling water in a 500 ml beaker. After 12 minutes cooking, the samples were washed thoroughly with distilled water in a Buchner funnel, allowed to drain for 2 minutes and then weighed to determine cooked weight. This procedure is the same as last year, but differs from previous years, when a 1% salt solution was used and the spaghetti was cooked for 10 minutes.

### B. Firmness Score

Two strands of cooked spaghetti were placed on a plexiglass plate and sheared at a 90° angle with a special plexiglass tooth. A continuous recording of distance versus force was made by the instrument during the operation. An automatic integrator was used to calculate the area under the curve (g cm) which was the amount of work required to shear the cooked spaghetti. To measure firmness, the average of three integrator scores was used, and the average work to shear was used as a measure of spaghetti firmness. The firmness score was read directly from the integrator value.

The higher the value, the firmer the spaghetti. A value of approximately 7.00 appears to be of preference.

Calculations were as follows:

$$E = 0.0216 \times A \text{ (g cm)}$$

A = Average integrator reading  
E = Area of curve in g cm

### C. Residue

This is the weight of the solids remaining after the combined cooking and washing water was evaporated.

## DISCUSSION

The following discussion represents some of the basic techniques and criteria used in the milling and cooking quality evaluation of durum wheat samples. Several testing factors are used to determine the overall quality characteristics or final evaluation of a particular sample including, in general, the kernel characteristics, milling performance and cooking performance.

Each evaluation factor can be important. A sample could be of sufficiently poor quality for a given factor to eliminate it from possible future testing. However, a sample submitted for the first time and found to show little promise should be tested again to establish if it has some good promise, or no promise. A sample which is consistently rated as little promise or no promise should be discarded.

Data presented in this report were processed by using the Statistical Analysis System (SAS Institute, Inc., SAS Circle, Box 8000, Cary, NC 27511). The program developed from this system allows flexibility within the quality grading factors. This should allow us to relate more directly to industry and consumer requirements.

In this evaluation system 11 dependent variables are used. These are test weight, 1000 kernel weight, percent small kernels, wheat protein, total extraction, semolina extraction, dust color, speck count, semolina protein, spaghetti visual color score and spaghetti firmness score. Five additional variables are measured and included in the tables for the reader's use and information but are not used in the computerized evaluation of the samples. These are percent large kernels, mixograph score, semolina mineral, falling number and cooking residue.

After computing an average of each of the 11 variables for the standards from a station or nursery, the computer subtracts established values from each of the standard averages to determine major (MJ) and minor (MI) faulting limits. There are two exceptions where precise values have been assigned, which are independent of the station standards. The first exception is wheat protein, where percentages below 11.5% will be classified as MJ faults, and percentages between 11.5% - 12.5% will be MI faults (14% m.b.). The second exception is semolina protein, where percentages below 11.0% are classified as MJ faults, and percentages between 11.0 and 11.5% are classified as MI faults (14% m.b.). Hence, the wheat and semolina protein faulting values remain the same for all stations and nurseries.

### SELECTION OF STANDARDS

Whenever possible, the standards selected were named varieties grown at each location or in each nursery. In the tables of data, the varieties used as standards are identified by an "s" in the second column. At the bottom of each table are cited "average of standards". Quality deviation from these values determine the major and minor faults (note preceding paragraph). In nurseries where breeders did not grow named varieties, standard quality data were obtained from the 1982 North Dakota standard, which was processed separately with each nursery. This standard was made up of durum wheats grown in North Dakota, not at the particular nursery location. Other deviations are footnoted in the tables.

### HOW SAMPLES ARE SCORED

Each sample is assigned an evaluation score of 4. Major and minor faults determined from the data by the computer will reduce this score, depending upon the quality factor being faulted. The effects of the different quality faults are shown in the table which follows:

#### DURUM PROGRAM FAULTING AND SCORING VALUES

Variable	<u>Range<sup>1/</sup></u>		<u>Effect on Evaluation Score<sup>2/</sup></u>	
	Minor fault	Major fault	Minor fault	Major fault
Test Wt. (lb/bu)	-2.2	-3.1	-	-1
1000 KWT (g)	-2.1	-5.1	-	-1
Small Kernels (%)	+5	+10	-	-1
Wheat Prot. (%)	12.5	11.5	-1	-2
Tot. Ext. (%)	-2.5	-3.5	-1	-2
Semo. Ext. (%)	-3.0	-4.0	-1	-2
Dust color	-10	-15	-2	-3
Specks/10 sq. in.	+10	+15	-	-1
Semo. Prot. (%)	11.5	11.0	-1	-2
Visual Spag. color	-1.0	-1.5	-2	-3
Firmness (g cm)	-1.5	-2.25	-1	-2

1/ Wheat and semolina protein percents are fixed lower limits for faults. All other values represent the deviation from the average of the standards required to warrant a minor or major fault.

2/ These values are subtracted from a beginning score of 4.

Because of the large number of samples received, and often because of the small sample size, we cannot perform all of the evaluation tests on each sample. The computer evaluation system allows any combination of quality factors to be evaluated.

The Final Evaluation (VAL) rating applies only to the data contained in the year of the report. The main defects and outstanding features are discussed. A selection which is promising as a new variety should be continued. A sample which shows little or no promise should be discontinued.

## EXPERIMENTAL RESULTS - 1982 CROP

The results are tabulated and presented in the following order: Tables 1-8, Uniform Regional Nursery; Tables 9-10, Western Durum Nursery; Tables 11-13, Field Plot Nursery; Tables 14-17, Advanced Nursery; Tables 18-41, Preliminary Nursery.

### UNIFORM REGIONAL NURSERY

Analyses were done on the individual samples from each station. Samples were milled using the micro procedure. Semolina produced from the micro milled samples were not processed into spaghetti. A sample that has a good semolina dust color score will usually produce spaghetti with an acceptable spaghetti visual color score. The varieties of Rugby, Vic and Ward represent the standards used for all stations in the Uniform Regional Nursery.

One hundred ninety-nine samples were received from eight stations and four states. Twenty-four samples were received from each of these stations: Selby and Watertown, South Dakota; Crookston and Morris, Minnesota; Bozeman and Sidney, Montana. Twenty-seven samples were received from Williston, North Dakota and twenty-eight samples from Dickinson, North Dakota. Eight of these samples were named varieties; the rest were experimental lines. The discussion which follows is based on averaged data from the eight stations.

Quality data for Rugby, Vic and Ward were averaged for each station, and these data were used as a standard to evaluate the other selections. Exceptions are wheat and semolina protein concentrations, which are fixed values. Hence, a variety or selection may be rated satisfactory at two different stations, but comparison of the data may show much poorer results for one station due to adverse environmental conditions. Thus, the sample with poor results could be rated as satisfactory at one or more stations. Each variety or selection is followed by the average general evaluation and a short narrative.

Cando (3.1 - 24/9\*) (3 years) - Some promise.

Faults (1982 crop only)

1000 KWT - Selby, Watertown, Morris, Sidney.  
Semolina extraction - Bozeman  
Dust color - Dickinson  
Small kernels - Selby

\* Average General Evaluation - # Total Deficiencies/Major Deficiencies

Coulter (3.4 - 16/5) (3 years) - Some promise

Faults (1982 crop only)

Dust color - Selby

1000 KWT - Watertown, Bozeman, Williston

Semolina extraction - Bozeman

Crosby (3.5 - 12/3) (3 years) - Good promise

Faults (1982 crop only)

1000 KWT - Selby, Morris, Dickinson

Semolina extraction - Bozeman

Mindum (1.1 - 29/23) (3 years) - No promise

Faults (1982 crop only)

Semolina extraction - Selby

Dust color - Selby, Watertown, Crookston, Morris,  
Sidney, Williston, Dickinson

1000 KWT - Crookston, Bozeman, Sidney, Williston

Rolette (3.0 - 12/2) (3 years) - Some promise

Faults (1982 crop only)

Dust color - Selby, Crookston

1000 KWT - Crookston

Rugby (3.9 - 6/1) (3 years) - Good promise

Faults (1982 crop only)

1000 KWT - Sidney, Williston

Vic (3.9 - 3/2) (3 years) - Good promise

Faults (1982 crop only)

1000 KWT - Morris

Ward (3.9 - 2/1) (3 years) - Good promise

Faults (1982 crop only)

None

D771\*\* (3.6 - 13/5) (3 years) - Some promise

Faults (1982 crop only)

Test weight - Morris  
1000 KWT - Morris  
Semolina extraction - Morris

D785 (3.5 - 11/4) (2 years) - Good promise

Faults (1982 crop only)

1000 KWT - Selby, Watertown, Crookston, Morris,  
Williston  
Semolina extraction - Selby

D792 (3.8 - 5/0) (1 year) - Good promise

Faults

Semolina extraction - Selby, Williston  
Test weight - Morris  
1000 KWT - Morris, Williston

D793 (3.8 - 1/0) (1 year) - Good promise

Faults

Dust color - Dickinson

D7609 (3.9 - 1/1) (1 year) - Good promise

Faults

None

D7733 (3.6 - 4/2) (2 years) - Good promise

Faults (1982 crop only)

1000 KWT - Crookston  
Dust color - Dickinson

D7751 (3.5 - 5/1) (2 years) - Good promise

Faults (1982 crop only)

Semolina extraction - Selby, Williston

\*\* Did not receive samples from Williston, ND stations.

D7798 (3.6 - 6/2) (2 years) - Good promise

Faults (1982 crop only)

Test weight - Morris  
1000 KWT - Morris  
Semolina extraction - Dickinson  
Dust color - Dickinson

D77200 (3.2 - 9/3) (2 years) - Some promise

Faults (1982 crop only)

Wheat protein - Bozeman  
Small kernels - Sidney  
Dust color - Dickinson

D78127 (3.9 - 1/1) (1 year) - Good promise

Faults

1000 KWT - Watertown

D78140 (4.0 - 2/0) (1 year) - Good promise

Faults

1000 KWT - Morris, Dickinson

D78168 (4.0 - 3/0) (1 year) - Good promise

Faults

1000 KWT - Watertown, Morris, Sidney

D78177 (3.9 - 6/1) (1 year) - Good promise

Faults

1000 KWT - Selby, Watertown, Morris, Sidney, Dickinson  
Small kernels - Sidney

DT369 (3.9 - 9/0) (1 year) - Good promise

Faults

Test weight - Selby, Watertown, Morris, Williston  
1000 KWT - Selby, Watertown, Sidney, Williston  
Semolina extraction - Williston

DT371 (3.8 - 5/2) (1 year) - Good promise

Faults

Test weight - Selby, Watertown, Sidney, Williston  
Small kernels - Sidney

DT433 (3.6 - 8/3) (3 years) - Good promise

Faults

1000 KWT - Selby, Crookston, Williston

Williston and Dickinson, ND stations also included four other samples. They are:

D801 (4.0 - 0/0) (1 year) - Good promise

Faults

None

D802 (4.0 - 0/0) (1 year) - Good promise

Faults

None

D803 (4.0 - 1/0) (1 year) - Good promise

Faults

Test weight - Williston

D804 (4.0 - 1/0) (1 year) - Good promise

Faults

1000 KWT - Dickinson

## WESTERN DURUM NURSERY

Analyses for the Western Durum Nursery samples were similar to those for the Uniform Regional Nursery samples. Data will be briefly discussed by station. Thirty-three samples were received from Tulelake, California, and thirty samples were received from Pullman, Washington; both stations using Cando and Modoc as standard.

### Tulelake, California, Table 9

Of the 33 samples received, 22 showed good promise. TL075-16 had a minor fault for test weight. Two samples showed some promise - Waid and UC000512. Four samples showed little promise, and five showed no promise. The average evaluation score for this station was 3.2.

### Pullman, Washington, Table 10

Eleven of the 30 samples received showed good promise. TL007315 was minor faulted for 1000 KWT, and WA006755 was minor faulted for test weight. Five samples showed some promise, 9 showed little promise and 5 showed no promise. The average evaluation score for this station was 2.7.

## FIELD PLOT NURSERY

Eighty-six samples were received from three stations. All samples were milled, and the semolina was processed into spaghetti using the macro method.

### Mesa, Arizona, Table 11

Nine samples were received from this station using Aldura and Mexicali 75 as the standards. None of the nine samples showed good promise. Aldura and Westbred 881 showed some promise, one showed little promise and five showed no promise. The average general score for this station was 1.6.

### Imperial Valley, California, Table 12

Thirty-eight samples were received from this station using Aldura and Modoc as the standards. Seven samples showed good promise, seven samples showed some promise, six samples showed little promise and eighteen samples showed no promise. The average general score for this station was 2.1.

### Kings Co., California, Table 13

Thirty-nine samples were received from this station using Aldura, Mexicali 75 and Modoc as the standards. All samples showed no promise. The major faulting areas were 1000 KWT, wheat and semolina protein.

#### ADVANCED NURSERY

One hundred forty-one samples were received from two stations. All samples were milled, and the semolina was processed into spaghetti using the macro method.

##### Delta, California, Exp. 234, Table 14

Twenty-four samples were received in this experiment using Aldura, Mexicali 75 and Modoc as standards. All samples were rated as no promise. The major faulting areas were wheat and semolina protein, 1000 KWT, dust color and semolina speck count.

##### Delta, California, Exp. 236, Table 15

Twenty-nine samples were received in this experiment using Aldura as the standard. All samples were rated as no promise. The major faulting areas were wheat and semolina protein and dust color.

##### Delta, California, Exp. 238, Table 16

Thirty-two samples were received in this experiment using Aldura as the standard. In this experiment also all samples were rated as no promise. The major faulting areas were wheat and semolina protein and dust color.

##### Imperial Valley, California, Table 17

Fifty-six samples were received from this station using Aldura, Mexicali 75 and Modoc as the standards. Of the 56 samples 5 rated good promise, 4 rated some promise, 4 rated little promise and 43 rated no promise. Major faulting areas were dust color, semolina specks and semolina protein. The average general score for this station was 1.5.

#### PRELIMINARY NURSERY

A total of 675 samples were received from five stations. All samples were milled using the micro procedure, except a composite of all samples received from the three New York stations, which were milled and the semolina processed into spaghetti using the macro method.

Aurora, New York, Table 18

Ten samples were received from this station using Aldura, Cando and Vic as the standards. One sample rated good promise, one with some promise, four with little promise and four rated no promise. The average general score for this station was 1.9.

Ithaca, New York (early), Table 19

Aldura, Cando and Vic were used as the standards from this station. Of the ten samples received, one sample rated as good promise, two rated some promise, two rated little promise and five rated no promise. The average general score for this station was 1.9.

Ithaca, New York (late), Table 20

Ten samples were also received from this station again using Aldura, Cando and Vic as the standards. Of the ten samples, six were rated as good promise, two rated as some promise and two samples rated as no promise. The average general score for this station was 3.2.

Livingston, New York, Table 21

Aldura, Cando and Vic were also used as the standards from this station. Of the ten samples received, one rated good promise, one rated some promise, two rated little promise and six rated no promise. The average general score for this station was 1.7.

Composite of the four locations, Table 22  
(Aurora, Ithaca early, Ithaca late and Livingston)

The major faulting values for these composites were Aurora - wheat protein, Ithaca (early) - wheat protein, Ithaca (late) - 1000 KWT and Livingston - test weight, 1000 KWT.

Macro Processing

A composite of each of the ten samples were received using the same standards Aldura, Cando and Vic. Of the ten samples received, two showed good promise, three showed some promise, two showed little promise and three showed no promise. The average general score for this composite was 2.4.

Imperial Valley, California, Tables 23 thru 34

There were twelve sets of samples from this station all using Aldura, Modoc and Mexicali 75 as the standards.

Set No. 1, 262/4 thru 262/82, Table 23

Ten samples rated good promise, 6 rated little promise and three rated no promise. The average general score for this set was 2.9. The major faulting area was dust color.

Set No. 2, 262/91 thru 262/174, Table 24

Ten samples showed good promise, three showed some promise, one showed little promise and two showed no promise. The average general score for this set was 3.3. The major faulting areas are 1000 KWT and dust color.

Set No. 3, 262/187 thru 262/253, Table 25

Of the 42 samples in this set, 14 showed good promise, 1 showed some promise, 6 showed little promise and 21 showed no promise. The major faulting area was dust color. The average general score for this set was 2.2.

Set No. 4, 262/277 thru 262/356, Table 26

Fifty-two samples were received, 8 rated good promise, 6 rated some promise, 17 rated little promise and 21 rated no promise. The major faulting areas were 1000 KWT and Semolina extraction. The average general score for this set was 2.0.

Set No. 5, 262/362 thru 262/442, Table 27

Forty-two samples were received in this set, 35 samples rated good promise, 5 rated some promise, 1 rated little promise and 1 rated no promise. The major faulting area was 1000 KWT. The average general score for this set was 3.8.

Set No. 6, 262/453 thru 262/617, Table 28

Thirty-four samples were received in this set. Of the 32 samples, 24 rated good promise, 3 rated some promise, 5 rated little promise and 2 rated no promise. The major faulting area was dust color. The average general score for this set was 3.4.

Set No. 7, 262/632 thru 262/787, Table 29

Forty samples were received in this set. Twelve showed good promise, 15 showed some promise, 5 showed little promise and 8 showed no promise. The major faulting areas were 1000 KWT and dust color. The average general score for this set was 2.7.

Set No. 8, 262/797 thru 262/806, Table 30

Five samples were received in this set. One showed good promise, 3 showed some promise and one showed little promise. The major faulting area in this set was 1000 KWT. The average general score was 3.0.

Set No. 9, 262/813 thru 262/890, Table 31

Thirty-six samples were received in this set. Twenty-eight samples showed good promise, 7 showed some promise and 1 showed little promise. The major faulting area in this set was 1000 KWT. The average general score was 3.7.

Set No. 10, 262/902 thru 262/957, Table 32

Thirty-seven samples were received in this set. Twenty-five samples showed good promise, 7 showed some promise and 5 showed little promise. The major faulting areas in this station were 1000 KWT and semolina extraction. The average general score was 3.5.

Set No. 11, 262/960 thru 262/985, Table 33

Thirteen samples were received in this set. Five samples showed good promise, 5 showed little promise and 3 showed no promise. The major faulting area was dust color. The average general score for this set was 2.5.

Set No. 12, 262/1000 thru 262/1048, Table 34

Twenty-one samples were received in this set. Eighteen samples showed good promise, 2 showed some promise and 1 showed no promise. The major faulting area was 1000 KWT. The average general score was 3.8.

Tulelake, California, Tables 35 thru 41

There were seven sets of samples from this station; all sets using Modoc and/or Mexicali 75 as the standards.

Set No. 1, TL82-1 thru TL82-126, Table 35

There were 126 samples in this set. Twenty-five samples showed good promise, 24 showed some promise, 34 showed little promise and 43 showed no promise. The major faulting areas were test weight, 1000 KWT, wheat protein and dust color. The average general score for this set was 2.2.

Set No. 2, TL82-253 thru TL82-278, Table 36

Twenty-eight samples were received in this set. Three samples showed good promise, 4 showed some promise, 8 showed little promise and 13 showed no promise. The major faulting areas were 1000 KWT, semolina extraction and dust color. The average general score for this set was 1.9.

Set No. 3, TL82-365 thru TL82-444, Table 37

Eighty samples were received in this set. Only three samples showed good promise, 5 showed some promise, 47 showed little promise and 25 showed no promise. The major faulting areas for this set were test weight and semolina extraction. The average general score for this set was 1.8.

Set No. 4, TL82-2110 thru TL82-2116, Table 38

Eight samples were received in this set. Three samples showed some promise, 4 showed little promise and 1 showed no promise. The major faulting area was wheat protein. The average general score for this set was 2.3.

Set No. 5, TL82-2125 thru TL82-2130, Table 39

Seven samples were received in this set. One sample showed good promise, 5 showed some promise and 1 showed no promise. The major faulting area for this set was wheat protein. The average general score for this set was 2.9.

Set No. 6, TL82-2131 thru TL82-2148, Table 40

Nine samples were received in this set. Six samples showed good promise, 2 showed some promise and 1 showed no promise. No major faulting areas. The average general score for this set was 3.4.

Set No. 7, TL82-2157 thru TL82-2163, Table 41

Eight samples were received in this set. Seven samples showed good promise and 1 showed no promise. No major faulting area. The average general score for this set was 3.6.

EXPLANATION OF ABBREVIATIONS  
LISTED UNDER THE HEADINGS AND UNDER  
MINOR AND MAJOR DEFICIENCIES ON TABLES

MINOR AND MAJOR DEFICIENCIES ON COMPUTER PRINTOUT

S or STD = Standard  
TW = Test Weight

1000 KWT or KW = 1000 Kernel Weight  
LG = % Large Kernels  
SM = % Small Kernels

WHT PRO or WP = Wheat Protein  
TOT EXT or TX = Total Extraction (Semolina Plus  
Flour)  
SEMO EXT or SX = Semolina Extraction  
DUS or DU = Semolina Dust Color Score (High  
score is more desirable)

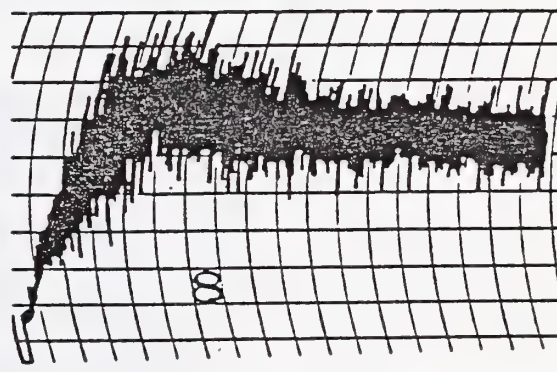
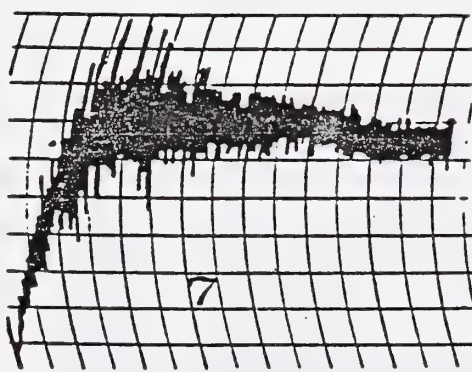
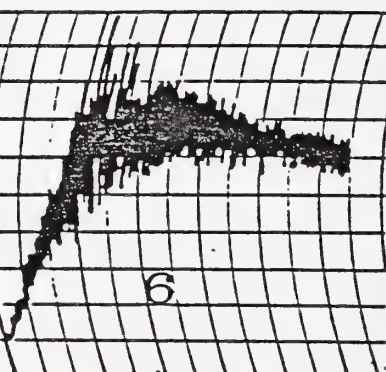
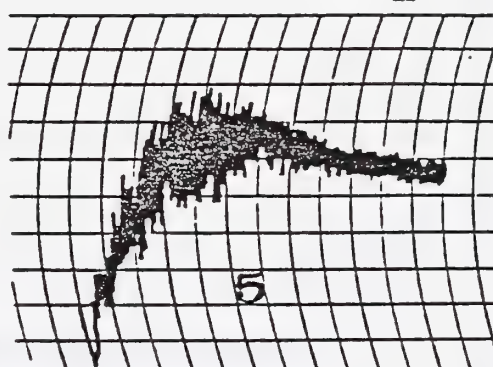
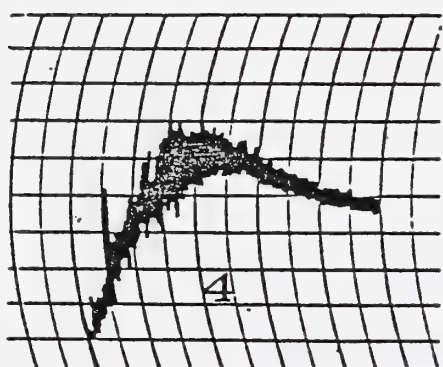
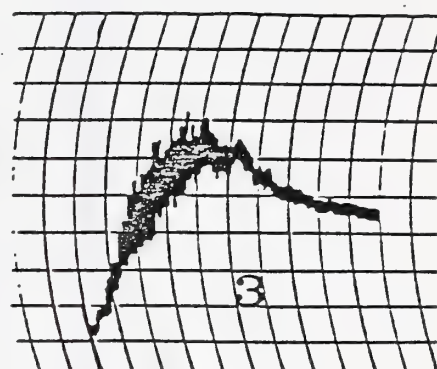
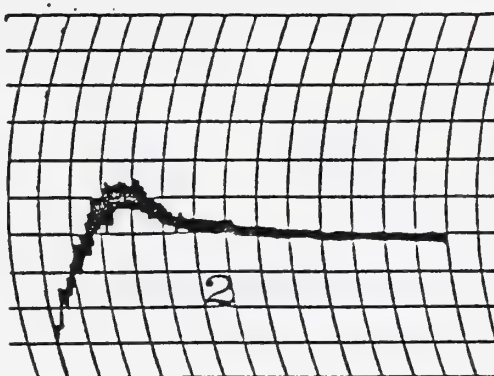
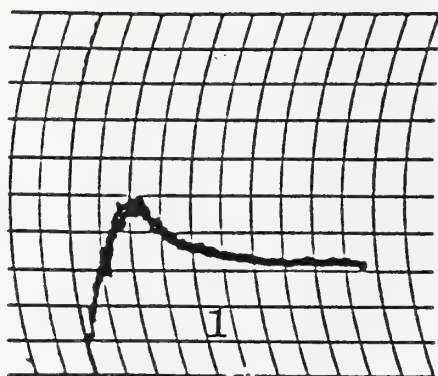
MX = Mixograph Score (The higher the number, the  
stronger the curve)  
SEM MIN = Semolina Mineral  
peck Count

FALL NO = Semolina Falling Number Value (Values  
above 300 are desired)  
SEMO PRO or SP = Semolina Protein

VI = Spaghetti Visual Color Score (The higher  
the score, the more desirable)  
FIRM or FR = Cooked Spaghetti Firmness Score  
(Approx. 6.50 to 8.50 is the  
desirable range)

RES = Residue in Water of Cooked Spaghetti  
VALU = Sample Evaluation Number (Example 4 =  
Good Promise)

NORTH DAKOTA STATE UNIVERSITY  
AGRICULTURAL EXPERIMENT STATION  
DEPARTMENT OF CEREAL CHEMISTRY  
AND TECHNOLOGY



REFERENCE MIXOGRAMS  
DURUM WHEAT

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=SOUTH DAKOTA STATION=SELBY NURSERY=UNIFORM

TABLE 1

VARIETY	STD	TW	1000 KWT	LG	SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	**	TW	RV	SM	WP	TX	SX	DU	SK	SP	VI	FR
CANDO	59.4	30.9	3	10	15.3			60.5	125	6								4		MI	MI									
COULTER	60.0	33.7	8	15	16.4			61.0	115	8								2												
CROSBY	59.7	33.1	6	16	16.1			59.5	120	6								4		MI										
MINDUM	61.6	33.8	14	3	15.8			57.5	95	5								1												
RULETTE	61.6	35.1	12	2	15.9			62.5	115	5								2												
RUGBY	60.2	34.4	10	4	16.1			61.5	125	5								4												
VIC	61.3	36.6	14	4	15.9			61.5	130	8								4												
WARD	60.3	35.0	9	4	16.5			63.5	120	6								4												
D 771	61.1	37.2	19	2	15.3			62.5	140	4								4												
D 785	58.6	30.6	5	7	16.5			58.0	135	8								2												
D 792	61.0	35.0	12	3	15.8			58.5	120	8								3												
D 793	60.5	38.8	30	2	15.5			60.5	125	8								4												
D 7609	61.4	35.8	24	3	15.8			64.0	140	8								4												
D 7733	61.1	35.6	13	3	16.1			60.0	130	8								4												
D 7751	61.4	35.7	21	2	15.6			58.5	125	8								4												
D 7798	61.3	38.2	13	3	15.5			62.5	130	8								3												
D 77200	60.6	35.2	5	6	14.3			63.5	120	8								4												
D 78127	61.8	35.2	10	5	14.4			62.0	125	8								4												
D 78140	62.7	36.5	21	3	14.5			62.0	125	8								4												
D 78168	60.3	33.9	14	4	14.4			61.5	135	8								4												
D 78177	61.6	32.2	8	4	14.4			61.5	125	7								4												
DT 369	58.2	31.9	10	6	15.6			60.5	120	8								4												
DT 371	57.6	37.7	5	6	16.0			61.0	125	8								4												
DT 433	60.3	32.6	12	4	16.6			60.0	130	8								4												

DEFICIENCIES  
 AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 2

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=SOUTH DAKOTA STATION=WATERLOO NURSERY=UNIFORM

VARIETY	STD	TW	1000 KWT	X LG-SH	WHT PRO	TOI EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	FIRM	RES	VALU	**	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VI FR
CANDO	59.8	34.5	24	2	15.7	.	60.0	110	7	.	.	.	.	.	.	4	MI	.	.	.	.
COULTER	59.8	34.6	27	3	15.5	.	64.0	115	8	.	.	.	.	.	.	4	MI	.	.	.	.
CROSBY	60.6	39.1	29	2	15.2	.	59.0	115	6	.	.	.	.	.	.	4	.	.	.	.	.
MINDUM	62.9	42.6	65	1	15.5	.	57.5	90	5	.	.	.	.	.	.	1	.	.	.	.	.
ROLETTE	62.9	42.4	46	1	15.7	.	60.5	110	5	.	.	.	.	.	.	4	.	.	.	.	.
RUGBY	60.4	39.4	35	3	15.6	.	59.5	115	6	.	.	.	.	.	.	4	.	.	.	.	.
VIC	61.1	39.7	48	2	15.7	.	59.5	120	8	.	.	.	.	.	.	4	.	.	.	.	.
WARD	61.0	36.9	39	1	15.7	.	58.0	115	6	.	.	.	.	.	.	4	.	.	.	.	.
D 771	60.5	42.0	41	2	15.3	.	59.0	130	6	.	.	.	.	.	.	4	.	.	.	.	.
D 785	60.0	31.2	28	2	16.2	.	59.0	125	8	.	.	.	.	.	.	4	MJ	.	.	.	.
D 792	60.3	36.6	38	1	15.7	.	57.5	110	8	.	.	.	.	.	.	3	.	.	.	.	.
D 793	60.2	39.8	47	2	15.2	.	59.0	120	8	.	.	.	.	.	.	4	.	.	.	.	.
D 7609	61.1	44.1	41	2	15.6	.	66.0	125	8	.	.	.	.	.	.	4	.	.	.	.	.
D 7733	60.8	42.2	52	1	15.6	.	61.0	115	7	.	.	.	.	.	.	4	.	.	.	.	.
D 7751	61.0	44.2	58	1	15.2	.	60.5	115	7	.	.	.	.	.	.	4	.	.	.	.	.
D 7798	61.1	46.3	58	1	16.0	.	62.5	115	7	.	.	.	.	.	.	4	.	.	.	.	.
D 77200	60.6	40.8	16	4	14.3	.	64.5	110	8	.	.	.	.	.	.	4	MJ	.	.	.	.
D 78127	60.6	14.7	33	3	14.3	.	65.0	125	7	.	.	.	.	.	.	3	.	.	.	.	.
D 78140	60.8	41.0	50	2	15.4	.	61.5	115	7	.	.	.	.	.	.	4	.	.	.	.	.
D 78168	59.5	35.5	34	4	25.0	.	60.5	120	7	.	.	.	.	.	.	4	MI	.	.	.	.
D 78177	60.2	34.2	19	4	14.8	.	62.0	125	8	.	.	.	.	.	.	4	MI	.	.	.	.
DT 369	57.8	33.6	24	4	15.4	.	63.0	110	8	.	.	.	.	.	.	4	MI	.	.	.	.
DT 371	58.1	40.0	25	2	15.8	.	63.0	110	8	.	.	.	.	.	.	4	MI	.	.	.	.
DT 433	61.0	39.4	43	2	15.7	.	58.5	120	7	.	.	.	.	.	.	4	.	.	.	.	.

DEFICIENCIES  
 TW KW SM WP TX SX DU SK SP VI FR  
 AVG OF STANDARDS 60.8 38.7 2 15.7  
 MINOR FAULTING VALUES 58.6 36.6 7 12.5  
 MAJOR FAULTING VALUES 57.7 33.6 12 11.5

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 3

STATE=MINNESOTA STATION=CROOKS NURSERY=UNIFORM

VARIETY	SID	TW	1000 KW	X LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	DEFICIENCIES TX SX DU SK SP VI FR
CANDO	55.7	42.6	45	2	15.9	•	60.0	110	6	•	•	•	•	•	•	•	4	•	•	•	•	•	•
COULTER	56.8	43.3	46	2	15.2	•	62.5	105	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
CROSBY	58.4	44.2	47	2	15.0	•	66.0	105	4	•	•	•	•	•	•	•	4	•	•	•	•	•	•
MINDUM	58.7	38.3	46	2	14.5	•	60.0	90	3	•	•	•	•	•	•	•	1	•	•	•	•	•	•
ROLETTE	61.6	40.3	62	2	15.4	•	61.0	95	4	•	•	•	•	•	•	•	2	•	MI	•	•	•	•
ROUGBY	57.8	43.7	50	2	15.4	•	55.5	110	4	•	•	•	•	•	•	•	4	•	MI	•	•	•	•
VIC	57.4	42.9	54	1	15.5	•	56.5	105	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
WARD	57.0	43.5	49	2	15.6	•	53.5	110	5	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 771	56.0	44.4	48	2	15.1	•	53.5	105	5	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 785	57.9	41.2	38	2	16.1	•	56.0	115	7	•	•	•	•	•	•	•	4	•	MI	•	•	•	•
D 792	56.0	41.5	35	2	15.3	•	54.0	105	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 793	58.2	47.8	66	2	15.3	•	56.5	115	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7609	57.4	43.1	53	2	15.4	•	59.0	120	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7733	57.1	40.7	51	2	15.4	•	55.5	105	7	•	•	•	•	•	•	•	4	•	MI	•	•	•	•
D 7751	58.2	48.5	62	2	15.6	•	55.0	105	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7798	57.8	45.0	57	2	15.8	•	57.5	110	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 77200	59.2	51.3	52	2	14.2	•	57.5	100	6	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78127	59.4	48.1	55	2	14.2	•	57.5	110	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78140	58.4	46.5	62	2	15.6	•	54.0	110	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78168	57.9	42.0	60	2	14.8	•	57.5	120	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78177	58.2	42.6	38	3	15.3	•	56.0	110	9	•	•	•	•	•	•	•	4	•	•	•	•	•	•
DT 369	57.0	45.8	49	3	14.8	•	54.5	110	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
DT 371	58.2	45.7	54	2	15.4	•	58.5	110	6	•	•	•	•	•	•	•	4	•	•	•	•	•	•
U7 433	58.4	34.5	50	2	16.0	•	52.5	115	8	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

57.4 43.4 2 15.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

55.2 41.3 7 12.5

54.3 38.3 12 11.5

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 4

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
STATE=MINNESOTA STATION=MOORE NURSERY=UNIFORM

VARIETY	STD	TW	1000 KW	LG	SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR
CANDO		60.8	40.3	19	3	15.2		51.5	115	5									3		MJ									
COULTER		62.6	46.3	50	2	15.1		60.0	110	4									4		MJ									
CROSBY		62.2	40.2	51	2	15.1		51.5	110	4									3											
MINDUM		63.2	45.7	61	2	14.8		57.0	95	3									1											
ROLETTE		63.8	44.6	62	2	15.8		53.5	105	4									4											
RUGBY		62.2	48.1	60	2	15.7		52.0	110	3									4											
VIC	S	62.1	42.6	61	2	15.9		52.0	120	6									4		MI									
WARD	S	62.4	46.5	59	2	15.5		49.0	110	4									4											
D 771		59.5	42.2	48	2	16.0		44.5	120	6									4		MI									
D 785		60.5	38.6	28	2	16.2		51.5	130	8									2		MJ									
D 792		59.5	41.3	40	2	15.4		51.0	105	8									3		MJ									
D 793		62.2	51.3	73	1	15.5		56.5	115	7									4		MI									
D 7609		60.6	46.5	60	2	15.7		51.5	125	8									4											
D 7733		60.5	43.7	55	2	16.5		51.0	120	8									4											
D 7751		62.2	47.8	58	2	15.6		49.0	110	7									4											
D 7798		60.0	42.2	46	2	16.4		50.5	120	7									4		MI									
D 77200		62.7	46.7	42	2	14.0		54.0	110	6									4											
D 78127		62.6	45.5	47	3	14.5		55.5	115	6									4											
D 78140		61.1	42.9	37	2	15.6		52.5	120	6									4											
D 78168		60.8	41.8	36	3	14.8		56.5	130	6									4		MI									
D 78177		61.9	38.0	26	2	14.7		53.5	120	6									4		MI									
DT 369		59.2	43.9	56	2	15.4		52.0	115	8									3		MJ									
DT 371		61.4	45.8	53	2	15.2		56.5	115	7									4											
DT 433		62.4	45.0	64	1	16.5		48.5	115	7									4											

DEFICIENCIES

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 5 QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=MOHIANA-STATION=BOZEMAN-NURSERY=UNIFORM

VARIETY	STD	TW	1000 KWT	X LG SM	WHT PRO EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIKM	RES	VALU	**	TW	RW	SN	WP	DEFICIENCIES TX SX DU SK SP VI FR
CANDO	63.8	46.5	67	1	12.6	62.0	115	3								2						
COULTER	62.0	41.3	62	2	13.4	64.0	115	3								3						MJ
CROSBY	63.2	44.8	68	2	14.7	59.5	125	3								2						MJ
MINDUM	62.7	42.2	53	2	13.4	67.5	115	4								4						
ROLETTE	63.3	45.7	70	2	15.7	66.5	110	4								4						
RUGBY	62.4	44.4	68	2	15.0	68.0	120	3								4						
VIC	S 62.6	49.8	78	1	15.3	67.0	120	5								4						
WARD	S 62.4	44.2	68	2	14.8	67.0	115	3								4						
D 771	61.9	47.4	72	1	15.0	66.0	125	3								4						
D 785	63.0	44.4	74	1	15.7	68.0	125	7								4						
D 792	62.2	46.7	73	1	14.4	65.0	110	7								4						
D 793	61.1	51.5	75	2	14.9	66.0	120	6								4						
D 7609	62.4	50.3	76	1	15.0	68.5	125	6								4						
D 7733	61.7	46.9	77	1	15.4	65.0	120	6								4						
D 7751	63.4	50.0	81	1	13.9	65.5	115	6								4						
D 7798	62.9	48.8	75	1	14.4	67.5	120	5								4						
D 77200	64.3	55.9	79	1	12.2	68.5	110	6								3						MI
D 78127	64.0	50.8	81	1	12.7	65.5	110	6								4						
D 78140	63.9	49.8	80	1	12.8	67.0	115	4								4						
D 78168	64.7	49.5	80	1	13.0	66.0	130	5								4						
D 78177	64.0	44.4	65	1	12.7	65.5	115	4								4						
DT 369	62.8	51.0	82	1	13.6	67.0	120	7								4						
DT 371	60.7	50.0	65	1	15.2	66.5	120	8								4						
DT 433	62.8	45.5	75	1	15.0	66.5	120	6								4						

DEFICIENCIES  
 AVG OF STANDARDS  
 MINOR FAULTING VALUES  
 MAJOR FAULTING VALUES  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 6

STATE=MONTANA STATION=SIDNEY NURSERY=UNIFORM

VARIETY	STD	TW	1000 KWT	LG	SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VI FR
CANDO	61.1	31.8	3	8	15.9	•	•	68.0	130	4	•	•	•	•	•	•	•	4	•	MI	•	•	•	•
COULTER	59.4	33.0	7	6	16.3	•	•	67.0	125	3	•	•	•	•	•	•	•	4	•	•	•	•	•	•
CROSBY	60.3	33.4	4	7	16.6	•	•	68.5	125	3	•	•	•	•	•	•	•	4	•	•	•	•	•	•
MINOUM	60.3	31.7	4	7	16.9	•	•	66.0	105	6	•	•	•	•	•	•	•	1	•	•	•	•	•	NJ
ROLETTE	62.9	44.2	16	3	15.9	•	•	71.5	125	4	•	•	•	•	•	•	•	4	•	•	•	•	•	•
RUGBY	60.2	32.6	7	5	16.3	•	•	67.5	125	3	•	•	•	•	•	•	•	4	•	•	•	•	•	•
VIC	S 61.8	37.5	9	3	16.3	•	•	68.0	135	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
WARD	S 61.1	34.8	10	4	16.4	•	•	68.5	130	6	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 771	62.1	37.3	26	2	15.6	•	•	68.5	140	4	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 785	61.0	34.1	10	4	16.4	•	•	66.0	135	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 792	61.1	34.6	4	4	16.0	•	•	67.5	125	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 793	60.5	37.6	23	3	15.9	•	•	68.5	130	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7609	61.8	36.2	22	4	15.7	•	•	67.5	140	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7733	61.8	39.4	15	3	16.3	•	•	67.0	130	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7751	61.9	38.9	30	2	15.4	•	•	67.0	130	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 7798	61.4	38.2	18	2	15.9	•	•	67.5	135	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 77200	61.0	34.6	3	9	15.5	•	•	67.5	125	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78127	61.8	35.1	8	6	14.7	•	•	67.0	135	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78140	62.2	32.9	7	5	15.9	•	•	66.0	130	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78168	60.0	32.4	6	7	16.1	•	•	65.5	140	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
D 78177	61.4	31.2	2	10	15.5	•	•	67.5	135	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•
DT 369	59.7	31.2	14	8	15.2	•	•	67.0	125	8	•	•	•	•	•	•	•	4	•	•	•	•	•	•
DT 371	57.6	34.0	4	9	16.2	•	•	67.0	130	8	•	•	•	•	•	•	•	3	•	NJ	•	•	•	•
DT 433	61.3	34.2	15	5	15.9	•	•	66.5	130	7	•	•	•	•	•	•	•	4	•	•	•	•	•	•

DEFICIENCIES  
 TW KW SM WP TX SX DU SK SP VI FR  
 61.0 35.0 4 16.3  
 58.8 32.9 9 12.5  
 57.9 29.9 14 11.5  
 65.0 120 11.5  
 64.0 115  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 7

STATE=NORTH DAKOTA STATION=WILLISLON NURSERY=UNIFORM

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	BP	TX	SX	DU	SK	SP	VI	FR
CANDO		61.3	42.9	25	1	15.2	65.5	125	4	.	.	.	.	.	.	.	.	4											
COULTER		61.1	38.2	40	1	16.0	63.5	115	7	.	.	.	.	.	.	.	.	4											
CROSBY		61.3	44.2	37	1	16.3	66.0	120	6	.	.	.	.	.	.	.	.	4											
MINDUM		62.4	35.8	35	1	16.1	62.5	100	6	.	.	.	.	.	.	.	.	4											
MOLETTE		62.9	44.1	52	1	16.6	65.0	120	4	.	.	.	.	.	.	.	.	1											
RUGBY		61.3	38.3	40	1	15.9	61.5	120	5	.	.	.	.	.	.	.	.	4											
VIC	S	62.4	44.6	64	1	15.7	64.0	120	8	.	.	.	.	.	.	.	.	4											
WARD	S	62.9	38.6	40	1	16.2	60.5	125	7	.	.	.	.	.	.	.	.	4											
D 785		62.9	46.5	46	1	16.6	61.5	130	8	.	.	.	.	.	.	.	.	4											
D 792		62.9	40.5	41	1	16.0	58.5	115	8	.	.	.	.	.	.	.	.	4											
D 793		61.6	40.9	62	1	15.5	60.0	125	8	.	.	.	.	.	.	.	.	4											
D 801		61.0	41.7	29	1	15.7	61.5	135	8	.	.	.	.	.	.	.	.	4											
D 802		61.9	50.0	55	2	16.0	62.0	140	8	.	.	.	.	.	.	.	.	4											
D 803		59.7	42.2	26	1	16.1	60.5	135	8	.	.	.	.	.	.	.	.	4											
D 804		61.8	41.3	26	1	15.4	60.5	130	8	.	.	.	.	.	.	.	.	4											
D 7609		62.4	44.8	65	1	15.5	63.0	135	8	.	.	.	.	.	.	.	.	4											
D 7733		62.1	46.9	63	1	16.2	61.5	130	8	.	.	.	.	.	.	.	.	4											
D 7751		62.4	43.5	60	1	15.5	58.5	120	8	.	.	.	.	.	.	.	.	4											
D 7798		61.9	46.7	57	1	16.3	62.5	125	8	.	.	.	.	.	.	.	.	4											
D 77200		62.4	43.9	33	1	14.8	62.5	120	8	.	.	.	.	.	.	.	.	4											
D 78127		62.1	43.5	39	1	14.2	63.0	130	8	.	.	.	.	.	.	.	.	4											
D 78140		62.4	45.2	51	1	15.2	59.5	120	8	.	.	.	.	.	.	.	.	4											
D 78168		61.1	45.2	40	1	15.1	60.0	135	8	.	.	.	.	.	.	.	.	4											
D 78177		62.2	41.3	22	1	15.1	61.0	130	8	.	.	.	.	.	.	.	.	4											
DT 369		59.5	39.2	42	1	15.3	59.0	120	8	.	.	.	.	.	.	.	.	3											
DT 371		59.0	42.2	30	2	15.7	63.0	125	8	.	.	.	.	.	.	.	.	3											
DT 433		62.8	39.7	50	1	16.6	60.0	130	8	.	.	.	.	.	.	.	.	4											

DEFICIENCIES  
 AVG OF STANDARDS 62.4 43.1 16.1  
 MINOR FAULTING VALUES 60.2 41.0 6 12.5  
 MAJOR FAULTING VALUES 59.3 38.0 11 11.5  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 8

STATE=NORTH DAKOTA STATION=DICKINSON NURSERY=UNIFORM

VARIETY	STD	TW	1000 KWT	X LG SM	WHT PHO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	VI	FIRM	RES	VALU	**	DEFICIENCIES					
CANDO		63.8	44.4	68	1	14.7	57.5	105	6							1							
COULTER		62.6	47.1	71	1	15.5	56.5	115	7							4							
CROSBY		62.9	43.1	63	1	14.1	57.0	115	5							4							
MINDUM		62.2	44.6	64	1	13.9	59.0	100	4							1							
MOLETTE		63.2	47.4	58	2	14.5	55.0	115	5							4							
RUGBY	S	62.4	45.7	68	2	14.5	53.0	120	6							4							
VIC	S	62.4	45.5	61	1	15.2	57.0	120	7							4							
WARD	S	63.7	47.8	75	1	13.7	52.5	120	6							4							
D 771		62.7	48.3	73	1	15.5	55.0	120	5							4							
D 785		61.6	45.7	72	1	15.4	61.0	115	7							4							
D 792		62.1	49.8	77	1	14.5	54.5	110	6							4							
D 793		62.2	54.6	62	1	15.2	58.0	120	7							2							
D 801		62.6	49.5	62	1	13.7	56.0	120	6							4							
D 802		62.1	44.4	61	1	13.8	58.5	120	7							4							
D 803		62.4	42.9	63	2	14.3	52.5	115	5							4							
D 804		61.8	45.7	69	1	14.5	60.5	125	7							4							
D 7609		62.2	52.6	81	1	14.5	56.5	110	6							4							
D 7733		63.1	48.1	67	1	14.9	56.5	120	7							4							
D 7751		61.9	44.8	39	1	14.1	49.5	110	5							2							
D 7798		62.2	46.3	59	1	14.2	56.5	110	6							4							
D 77200		63.2	49.3	70	1	13.5	58.0	115	6							1							
D 78127		62.2	43.1	58	1	13.9	55.5	115	8							4							
D 78140		61.4	47.6	67	1	13.8	56.5	125	7							4							
D 78168		62.4	43.1	55	1	14.2	56.5	115	4							4							
D 78177		61.1	45.0	56	1	14.4	55.0	125	6							4							
DT 369		60.8	48.5	53	1	15.2	58.5	120	8							4							
DT 371		62.7	48.8	66	1	15.3	58.0	115	7							4							
DT 433																							

DEFICIENCIES  
 TW KW SM WP TX SX DU SK SP VI FR  
 AVG OF STANDARDS 62.8 46.3 1 14.5  
 MINOR FAULTING VALUES 60.6 44.2 6 12.5  
 MAJOR FAULTING VALUES 59.7 41.2 11 11.5  
 \*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 9 QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IMULELAKE NURSERY=WESTERN DURUM

VARIETY	STD	TW	1000 KW	X LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	DEFICIENCIES												
																		TW	KW	SH	WP	TX	SX	DU	SK	SP	VI	FR		
ANZA		62.2	39.4	70	1	12.5	68.0	55	5								1		MJ											MJ
CANDO	S	61.8	47.8	70	1	13.2	58.5	105	6								4													
INRIIDUR		60.2	51.3	86	1	13.9	51.0	105									2													MJ
MODOC	S	62.2	47.6	80	1	14.2	54.0	100	5								4													
PRODUR		61.9	50.3	76	1	14.2	54.0	90	4								2													MI
WALD		61.6	45.8	64	1	14.8	52.5	105	4								3													MI
VEECORA		61.0	41.8	58	1	14.5	67.0	50	7								1													MJ
RUJO		62.6	48.3	72	1	13.5	56.0	110	7								4													
D 0000771		62.4	52.1	78	1	13.3	57.0	115	7								4													
D 0000773		62.4	49.8	77	1	13.5	59.5	105	4								4													
TL 073-457		61.1	53.8	86	1	14.4	56.5	110	4								4													
TL 073-468		61.9	52.6	84	1	13.2	52.5	90	8								1													MI
TL 073-471		62.9	55.9	88	1	14.2	51.5	100	5								2													MJ
TL 073-506		61.9	46.3	67	1	13.6	55.0	95	7								4													MJ
TL 074-30		59.5	48.1	71	1	13.5	56.5	150	4								4													
TL 075-16		62.1	46.1	74	1	13.9	61.0	110	6								4													
TL 075-393		60.5	45.5	60	2	13.5	52.0	125	4								4													
TL 075-409		61.3	34.8	42	2	11.7	69.5	90	5								2													
UC 353		62.3	52.9	83	1	13.2	53.5	95	7								1													MI
UC 000496		64.0	50.5	80	1	12.5	53.5	100	4								3													
UC 000512		60.7	51.3	74	1	13.9	54.5	105	3								4													MI
UC 000514		62.1	50.3	77	1	13.6	58.5	85	8								1													
UC 000516		61.4	54.3	86	1	14.0	54.5	95	4								4													
UC 000518		61.3	52.4	88	1	13.5	56.5	105	7								1													MJ
WA 006518		62.2	46.1	78	1	15.0	60.5	115	2								4													
WA 006521		62.6	52.1	80	1	13.7	59.0	105	7								4													
WA 006525		63.2	52.1	88	1	13.2	58.5	95	6								4													
WA 006621		62.2	51.5	82	1	13.7	59.5	110	6								4													
WA 006627		60.3	55.2	76	1	13.7	60.5	105	5								4													
WA 6630		60.0	51.8	76	1	14.0	57.5	105	7								4													
WA 006755		61.3	47.6	81	1	13.1	57.5	100	6								4													
WA 006869		60.8	58.5	88	1	13.6	60.5	105	7								4													
WPB 00803		61.0	54.9	91	1	15.1	57.5	120	8								4													
WPB 00881																														

DEFICIENCIES  
 AVG OF STANDARDS 62.0 47.7 1 13.7  
 MINOR FAULTING VALUES 59.8 45.6 6 12.5  
 MAJOR FAULTING VALUES 58.9 42.6 11 11.5  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 10

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=WASHINGTON STATION=PULLMAN NURSERY=WESTERN DURUM

VARIETY	STD	TW	1000 KMT	X LG SM	WHT PRO EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL ND	SEMO PRO	VI	FIRM	RES	VALU	**	DEFICIENCIES									
CANDO	S	64.0	42.9	53	3	11.6	62.5	115	2	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
IRRIDUR	S	64.3	47.6	63	3	12.7	61.0	115	5	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MODOC		64.6	47.1	73	2	11.9	69.0	110	6	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
CI 017806		63.0	45.5	50	2	11.9	68.0	110	3	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
D 0000771		65.0	48.3	76	1	11.4	66.5	115	5	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
NK 000051		63.5	44.6	67	1	12.4	64.5	115	4	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 007315		64.2	42.4	75	1	12.8	67.0	115	3	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 007430		65.1	41.2	68	1	12.9	68.5	100	4	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 073457		65.1	46.1	67	1	12.8	67.0	110	2	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 073468		63.4	50.5	78	1	12.1	67.0	120	3	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 073471		65.1	49.8	78	1	12.1	67.5	95	4	..	..	..	..	..	..	1	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 073506		64.8	55.6	87	1	13.9	67.0	100	3	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 075393		65.1	51.3	82	1	13.5	67.0	105	2	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
TL 075409		63.7	44.8	51	2	13.2	65.5	115	4	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
UC 000496		64.8	51.0	73	2	11.8	66.0	95	5	..	..	..	..	..	..	1	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
UC 000512		66.1	45.0	60	1	12.7	74.0	100	3	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
UC 000514		63.4	51.8	65	1	13.0	72.0	110	2	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
UC 000516		64.3	49.8	73	1	12.9	73.0	85	5	..	..	..	..	..	..	1	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
UC 000518		64.0	52.9	72	3	13.0	64.5	100	3	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006518		61.9	46.3	52	1	13.0	62.0	115	6	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006521		63.4	46.3	57	1	12.5	62.0	115	3	..	..	..	..	..	..	2	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006525		63.7	52.4	71	2	12.4	61.0	115	6	..	..	..	..	..	..	1	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006621		63.7	38.0	56	1	11.8	62.0	100	6	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006627		64.3	55.2	79	1	13.4	71.0	110	4	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 006755		61.9	50.0	54	1	13.1	67.5	110	5	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WA 680069		63.0	51.3	67	1	12.6	67.5	105	4	..	..	..	..	..	..	3	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WPB 00803		62.9	53.8	82	1	12.2	71.0	110	4	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WPB 00806		64.0	48.8	70	1	13.7	68.0	110	2	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WPB 00881		63.5	55.6	85	1	14.3	71.5	120	7	..	..	..	..	..	..	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI

DEFICIENCIES  
 TW KW SM X  
 AVG OF STANDARDS 64.3 45.0 2 11.7  
 MINOR FAULTING VALUES 62.1 42.9 7 12.5  
 MAJOR FAULTING VALUES 61.2 39.9 12 11.5

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
STATE=ARIZONA STATION=MESA NURSERY=FIELD PLOT

TABLE 11

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMU EXT	DUS	MX	SPK	SEMU MIN	FALL NO	SEMU PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	64.8	53.5	85	1	13.0	76.8	56.4	135	4	33	0.53	765	11.2	.	6.29	5.7	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
CANDO	S	63.2	42.7	50	1	12.5	76.3	53.9	140	3	23	0.54	576	10.9	.	5.94	5.8	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MEXICALI 75	S	63.1	58.5	91	1	12.5	77.2	57.6	125	6	30	0.57	672	10.9	.	6.48	6.1	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WESTBRED 803		62.0	57.8	86	1	10.8	76.5	57.2	125	7	17	0.61	706	9.7	.	7.04	6.9	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
WESTBRED 881		63.4	58.1	94	1	13.6	74.9	54.6	135	7	47	0.54	1000	12.0	.	8.14	5.5	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
YAVARDS 79		65.9	59.2	88	1	11.3	76.1	55.9	110	4	30	0.45	630	10.1	.	5.90	5.8	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MEXI'S. X FG'S.		63.7	59.9	88	1	12.5	78.3	59.0	125	6	37	0.53	715	11.1	.	6.87	6.0	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
PI 367225		61.4	41.2	61	2	12.8	74.8	53.5	140	3	40	0.57	611	11.0	.	6.26	4.7	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
1000 D		61.0	48.8	79	2	13.7	74.4	54.5	120	4	37	0.58	632	12.2	.	7.99	5.4	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 12

## QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSEBY=FIELD PLOT

VARIETY	STD	TW	1000 KWT	% LG SH	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	63.4	49.5	70	1	13.2	78.4	57.7	120	3	53	0.55	582	11.7	5.66	8.1	4												
MEXICALI 75	S	63.2	57.1	87	1	12.6	76.9	59.7	120	7	63	0.60	589	10.8	7.98	6.8	1												
MUDOC		64.3	43.9	72	2	13.4	79.2	54.9	115	3	43	0.75	609	11.4	6.84	6.4	3												
NITA		60.3	36.9	27	6	12.8	79.2	56.0	125	3	73	0.64	599	11.7	6.03	7.4	1												
WALD		62.2	40.3	36	1	13.3	68.3	49.1	130	2	57	0.64	705	11.4	6.85	8.1	2												
YECORA ROJO		64.4	47.1	75	1	13.3	68.3	49.1	130	5	99	0.38	658	11.3	6.54	7.2	1												
MALLARD 'S'		63.8	54.9	84	1	12.4	78.6	57.4	120	7	53	0.59	651	10.9	6.67	7.2	1												
ROKEL 'S'		63.5	52.6	86	1	12.4	78.3	60.3	125	6	40	0.56	603	10.9	6.48	6.9	1												
SWAN 'S'		65.3	53.5	84	1	12.8	80.7	60.7	95	3	20	0.50	694	10.9	6.05	7.1	1												
TUNESIA		62.8	47.4	75	1	12.2	77.1	56.3	100	4	17	0.61	453	10.5	7.28	7.4	1												
WESTBRED 881		62.5	54.6	89	1	14.4	77.7	57.0	130	7	33	0.60	904	12.6	7.50	7.0	4												
WESTBRED 1000 D		59.8	46.3	69	2	13.4	80.2	58.4	190	6	30	0.63	659	12.2	6.83	6.1	1												
YAVAROS		65.4	52.4	87	1	11.7	76.5	56.7	110	3	27	0.53	668	10.4	5.98	7.6	1												
AG PROD 7702		64.2	55.6	82	1	12.5	66.7	47.6	170	4	40	0.38	587	10.3	5.57	7.1	1												
CA 68044		65.1	39.1	41	2	12.0	76.6	57.2	125	3	33	0.58	610	10.7	4.97	6.6	1												
CA 68047		62.9	41.0	53	2	12.4	77.4	56.0	100	2	30	0.61	575	11.1	4.77	6.6	1												
CA 69488		63.7	47.6	54	2	11.5	78.0	57.3	125	2	30	0.55	583	10.2	5.42	6.7	1												
CA 69505		61.5	42.2	65	2	14.3	76.7	56.2	100	6	60	0.66	741	12.9	7.08	6.6	1												
CA 70200		62.4	42.9	48	2	13.0	76.9	55.7	125	4	53	0.63	628	11.5	6.57	7.3	3												
CA 72142		64.3	47.6	66	1	12.6	77.0	56.1	115	2	23	0.54	523	11.0	5.27	7.3	2												
CA 72147		62.4	44.8	64	1	12.8	78.7	57.7	105	3	53	0.56	490	10.9	6.72	7.5	2												
CD 1894		63.3	58.5	90	1	12.7	78.7	58.6	115	6	43	0.64	779	10.7	7.04	7.6	3												
CD 12427		65.2	45.7	74	1	13.4	76.5	55.4	115	4	30	0.55	684	11.1	7.88	7.3	4												
CD 17717		62.1	51.8	86	1	13.1	76.6	56.3	110	5	50	0.60	426	11.6	7.04	7.6	3												
CM 14662		62.2	44.8	65	1	13.6	77.0	55.9	110	3	30	0.52	647	11.9	5.85	6.1	4												
D 7911		65.4	53.2	83	1	12.3	77.5	57.8	100	3	43	0.50	655	10.5	5.83	8.0	1												
D 8055		62.3	48.1	70	1	13.4	77.4	58.2	80	5	37	0.54	439	11.7	6.91	6.9	1												
D 8056		63.8	50.5	78	1	13.1	76.5	56.9	110	6	27	0.57	773	11.7	6.57	7.7	4												
D 8057		63.4	47.8	78	1	13.5	75.9	56.3	90	6	40	0.56	549	11.8	7.26	7.3	1												
NJORD 231		63.4	47.6	70	1	13.4	76.6	57.1	130	2	40	0.58	647	11.5	5.98	7.0	3												
TL 73-16		61.8	39.4	51	2	13.1	77.0	55.4	140	3	37	0.59	739	11.6	6.59	6.5	3												
TL 73-457		62.4	41.3	44	2	13.2	77.5	54.6	130	2	33	0.59	603	11.4	7.32	7.0	2												
TL 73-468		58.9	38.8	44	2	13.5	76.6	56.0	140	3	47	0.65	902	11.8	6.48	7.1	2												
TL 73-471		61.8	38.1	39	2	12.9	78.1	56.2	110	3	37	0.60	734	11.1	6.48	7.8	2												
TL 73-506		63.9	51.0	85	1	12.7	77.8	56.1	115	3	43	0.56	632	11.8	5.68	7.7	3												
TL 74-30		61.6	36.9	28	3	13.7	77.6	55.0	115	5	33	0.74	762	12.2	7.32	7.3	3												
TL 75-393		64.0	45.8	70	1	13.5	77.7	56.9	125	2	40	0.60	709	12.0	7.34	6.3	4												
TL 75-409		61.0	39.5	45	2	13.4	78.7	58.5	130	3	47	0.61	593	11.8	6.65	7.0	3												

## DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

TW KW SM WP TX SX DU SK SP VI FR

63.8 46.4 1 12.9 77.6 56.3 118 48 11.5 6.75

61.6 44.3 6 12.5 75.1 53.3 108 58 11.5 5.25

60.7 41.3 11 11.5 74.1 52.3 103 63 11.0 4.50

\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 13

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=KINGS CO. NURSERY=FIELD PLOT

VARIETY	STD	TW	1000 KWT	LG	% SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	65.0	51.3	83	1	10.5	79.6	56.8	135	3	30	0.60	714	9.3	.	5.38	6.5	1	MI	MJ	MI	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
MEXICALI 75	S	63.6	59.5	91	1	9.4	72.9	53.8	105	4	27	0.64	655	8.7	.	6.00	6.0	1	MI	MJ	MI	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
MODOC	S	65.1	52.9	89	1	12.3	74.3	50.4	95	3	33	0.61	654	10.9	.	6.83	6.7	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
NITTA		62.8	37.5	30	4	10.8	75.3	52.5	130	4	20	0.59	641	9.7	.	.	6.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
NJORO 231		63.4	46.9	62	1	10.4	77.8	55.0	120	2	20	0.57	765	9.1	.	5.31	6.4	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
PRODURA		64.5	51.5	85	1	10.7	78.7	56.0	170	2	20	0.57	633	9.5	.	5.85	6.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
WARD		63.7	44.2	65	1	10.1	74.3	53.4	125	3	23	0.67	663	9.2	.	5.85	6.4	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
WESTBRED 881		64.3	60.2	94	1	12.0	75.9	54.7	130	7	27	0.61	872	10.8	.	7.56	6.2	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
WESTBRED 1000 D		62.3	50.5	82	1	8.9	71.7	52.0	110	4	30	0.65	617	8.6	.	6.22	6.0	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
YAVAROS		65.3	54.3	88	1	9.5	73.3	54.8	110	2	17	0.61	655	8.5	.	6.74	7.2	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
416		65.3	46.5	86	1	9.4	73.1	53.1	135	3	17	0.65	605	9.2	.	5.88	6.6	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
422		63.2	48.3	62	1	10.7	76.0	56.0	130	4	23	0.67	703	9.7	.	5.62	8.1	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
481		65.2	54.6	85	1	9.9	78.2	56.7	100	2	20	0.62	603	9.3	.	5.88	7.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
482		63.8	48.5	77	1	12.1	76.3	54.3	120	5	23	0.67	739	11.5	.	7.21	6.1	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
498		64.1	59.2	90	1	10.2	74.9	54.5	120	7	37	0.63	.	9.1	.	6.03	7.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
499		63.5	53.8	92	1	8.9	70.4	53.0	125	6	30	0.60	683	8.3	.	5.94	7.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
505		65.1	54.9	92	1	8.6	73.0	54.4	95	2	17	0.60	664	8.1	.	5.88	7.9	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
506		64.0	51.3	83	1	8.9	68.2	49.7	105	2	17	0.61	628	8.6	.	5.34	8.3	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
507		63.3	53.5	83	1	9.2	76.2	56.7	80	2	30	0.60	631	8.5	.	4.92	6.6	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
512		66.6	48.3	75	1	10.2	76.8	57.6	125	2	33	0.66	718	9.2	.	5.94	6.5	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
513		64.2	48.3	60	1	10.7	75.3	54.2	130	2	27	0.61	625	9.8	.	5.18	8.4	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
514		64.2	54.1	85	1	10.5	78.4	54.4	130	2	30	0.61	604	8.9	.	5.14	7.5	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
515		64.8	55.6	85	1	9.9	68.6	43.7	100	3	17	0.62	661	9.8	.	5.85	7.5	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
516		64.6	51.8	77	1	10.7	76.1	56.0	100	6	23	0.60	669	9.8	.	5.14	6.2	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
517		56.0	45.5	68	1	10.2	73.0	51.3	125	2	20	0.61	604	9.4	.	5.14	7.2	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
518		64.8	49.8	74	1	9.5	75.9	52.3	125	2	30	0.65	692	8.9	.	5.14	7.9	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
559		63.5	49.0	84	1	10.0	69.8	47.6	75	5	50	0.45	623	8.9	.	6.35	5.8	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
559		65.0	50.0	84	1	12.0	75.0	54.6	120	3	20	0.63	548	10.5	.	6.46	5.8	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
560		64.1	49.8	77	1	10.7	79.2	56.7	105	3	17	0.60	693	9.6	.	5.90	6.3	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
561		63.5	49.0	83	1	10.4	75.2	55.2	120	4	10	0.64	836	9.6	.	6.91	6.8	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
563		64.8	56.2	86	1	10.4	76.9	56.8	85	3	13	0.61	748	9.4	.	5.23	7.1	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
564		63.7	55.6	88	1	10.7	77.9	56.0	115	4	27	0.60	663	9.4	.	5.27	7.3	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
565		64.5	48.8	78	1	9.4	76.0	56.3	95	3	23	0.64	750	8.5	.	5.27	7.8	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
566		64.5	45.0	68	1	12.4	76.0	60.7	105	4	60	0.80	791	10.2	.	5.79	7.9	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
567		64.5	48.3	69	1	11.7	76.2	53.8	140	2	30	0.69	564	10.2	.	5.79	7.9	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
568		64.6	54.1	89	1	10.5	77.3	54.6	120	3	17	0.64	679	9.5	.	5.64	7.2	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
569		63.5	46.1	66	1	11.3	77.3	63.2	95	3	47	0.80	863	9.5	.	.	.	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
570		62.9	49.3	81	1	9.9	74.8	53.5	140	2	7	0.67	796	8.9	.	.	.	1	MJ	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ
571		64.6	49.5	83	1	8.3	71.7	52.2	130	3	20	0.63	618	8.2	.	5.05	8.9	1	MI	MJ	MJ	MJ	MI	MJ	MJ	MJ	MJ	MJ	MJ

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

DEFICIENCIES

AVG OF

MINOR

MAJOR

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 14

STATE=CALIFORNIA STATION=DELIA AREA=NURSERY=ADVANCED

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMU EXT	DUS	MX	SPK	MIN	FALL NO	SEMU PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VT FR
ALDURA	S	64.6	48.3	75	1	10.6	80.6	59.1	155	3	13	0.56	599	9.6	.	6.07	6.8	1	MI	MJ			MJ
FRIGATE *S*		64.6	46.3	76	1	11.6	79.6	57.4	125	3	3	0.58	516	10.3	.	5.70	6.5	1	MI	MI			MJ
GEDIZ	S	64.6	48.5	76	1	11.6	78.3	56.2	120	4	27	0.57	518	10.5	.	6.65	6.0	1	MI	MI			MJ
MEXICALI 75	S	63.2	57.8	91	1	11.1	77.8	57.9	115	7	20	0.61	569	10.0	.	6.31	5.9	1	MI	MJ			MJ
MODOC	S	65.7	50.0	84	1	11.8	76.9	54.7	115	7	20	0.61	567	10.3	.	6.33	6.9	1	MI	MI			MJ
SHOW *S*		65.4	52.4	81	1	11.1	79.2	59.2	105	5	33	0.57	550	10.1	.	6.09	6.6	1	MI	MJ			MJ
SWAN *S*		64.4	52.4	80	1	10.2	77.7	57.4	100	3	17	0.54	502	9.2	.	5.96	7.2	1	MI	MJ			MJ
YAVAROS		66.1	52.6	84	1	10.5	78.8	59.6	115	3	20	0.51	570	9.3	.	5.68	7.3	1	MI	MJ			MJ
234/2		65.9	44.2	65	2	10.2	79.0	59.0	165	2	43	0.57	536	9.2	.	5.66	7.1	1	MI	MJ			MJ
234/3		63.7	47.1	64	1	10.8	79.5	58.3	150	2	33	0.55	538	9.7	.	5.94	6.9	1	MI	MJ			MJ
234/4		65.2	51.8	82	1	11.5	79.3	58.8	125	6	20	0.57	525	10.3	.	6.09	7.1	1	MI	MJ			MJ
234/5		63.6	52.1	83	1	11.6	79.7	58.5	165	7	30	0.57	653	10.8	.	6.54	5.9	1	MI	MJ			MJ
234/6		65.6	52.1	79	1	12.0	79.3	58.2	145	3	40	0.57	558	10.8	.	4.95	6.7	1	MI	MJ			MJ
234/7		64.9	46.5	70	1	11.1	78.8	57.6	140	2	30	0.54	486	10.0	.	5.40	5.9	1	MI	MJ			MJ
234/8		62.9	44.8	62	1	11.1	80.2	58.7	120	3	40	0.55	489	9.9	.	6.24	6.9	1	MI	MJ			MJ
234/10		64.0	45.0	63	1	11.2	82.5	60.5	110	7	10	0.57	582	10.4	.	6.31	6.5	1	MI	MJ			MJ
234/15		63.6	51.3	76	1	9.9	78.6	57.7	95	5	27	0.56	566	9.0	.	5.83	7.5	1	MI	MJ			MJ
234/16		63.6	49.3	80	1	11.8	79.5	57.2	100	4	23	0.57	629	10.9	.	5.75	6.7	1	MI	MJ			MJ
234/18		63.0	53.8	86	1	11.7	80.2	58.6	115	8	33	0.57	554	10.3	.	5.83	7.5	1	MI	MJ			MJ
234/24		65.4	53.2	81	1	12.6	77.9	57.5	100	6	10	0.56	589	15.5	.	6.26	6.1	1	MI	MJ			MJ
234/27		62.2	58.5	91	1	11.8	79.0	57.7	95	5	13	0.54	613	10.5	.	5.66	6.9	1	MI	MJ			MJ
234/49		63.2	59.2	73	1	11.5	78.8	57.3	95	6	33	0.56	526	9.6	.	4.29	6.6	1	MI	MJ			MJ
234/51		63.9	51.8	80	1	9.9	76.8	56.9	130	1	20	0.56	538	9.1	.	6.67	7.3	1	MI	MJ			MJ
234/58		65.3	54.9	89	1	12.6	77.1	53.6	95	5	3	0.54	541	11.4	.	6.31	6.9	1	MI	MJ			MJ

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 15

STATE=CALIFORNIA STATION=DELIA AREA NURSERY=ADVANCED

VARIETY	STD	TW	1000 KWT	% LG SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR		
ALDURA	S	64.1	48.1	71	1	11.6	77.8	56.1	155	3	23	0.54	578	10.4	.	5.57	7.5	1		MI									MJ	
		64.4	51.8	74	1	12.5	77.6	56.2	125	4	13	0.59	420	11.2	.	6.20	6.3	1		MI									MI	
		64.0	47.6	72	1	12.1	77.1	55.0	100	2	27	0.56	551	11.0	.	6.20	7.0	1		MI									MJ	
		65.2	59.9	87	1	11.5	78.7	60.0	115	2	27	0.56	587	10.6	.	6.42	6.2	1		MJ									MJ	
		65.5	58.1	89	1	12.0	76.0	57.1	125	2	23	0.55	622	10.6	.	5.53	6.6	1		MI									MJ	
		66.0	54.9	83	1	11.5	77.3	57.0	100	5	13	0.53	610	10.3	.	6.35	6.3	1		MJ									MJ	
		62.6	51.8	76	1	12.5	77.1	55.1	110	2	23	0.64	569	11.4	.	6.65	6.5	1		MI									MI	
		64.5	53.5	80	1	11.4	77.4	58.1	115	7	20	0.57	521	10.5	.	6.42	6.6	1		MJ									MJ	
		65.2	44.2	72	1	11.8	77.3	56.5	110	2	40	0.59	578	10.4	.	5.16	7.2	1	MI										MJ	
		63.0	45.8	74	1	12.0	77.5	57.7	110	6	17	0.55	582	10.7	.	6.44	6.7	1	MI											MJ
FRIGATE LOON		65.0	56.5	83	1	12.5	76.7	56.5	95	3	17	0.53	657	11.4	.	6.85	6.3	1		MI										MI
		64.7	59.9	90	1	12.7	79.3	58.9	105	8	33	0.53	712	11.2	.	7.50	6.8	1		MI										MI
		66.4	53.5	90	1	12.1	79.0	59.5	90	5	17	0.56	609	11.1	.	7.41	6.8	1		MI										MI
		64.7	55.6	88	1	11.6	79.9	58.9	110	7	20	0.55	637	10.7	.	6.87	6.6	1		MI										MJ
		63.8	54.9	86	1	11.9	77.9	57.9	90	1	37	0.60	575	10.8	.	5.94	6.8	1		MI										MJ
		64.6	53.2	87	1	12.3	80.5	58.5	95	5	30	0.57	650	10.9	.	5.92	6.8	1		MI										MJ
		63.0	49.5	78	1	12.1	80.0	58.3	95	6	27	0.58	603	10.9	.	6.31	7.2	1		MI										MJ
		64.4	49.5	78	1	12.8	79.3	58.5	95	7	27	0.58	606	11.6	.	6.22	6.8	1		MI										MJ
		63.1	52.9	76	1	12.1	79.6	58.4	105	6	30	0.53	553	10.9	.	5.81	6.6	1		MI										MJ
		63.8	55.9	83	1	14.5	80.1	59.4	105	6	30	0.53	553	10.9	.	5.81	6.6	1		MI										MJ
STIFFTAIL-3		64.2	53.9	81	1	12.7	78.5	56.7	90	7	3	0.58	684	13.4	.	6.72	5.9	1		MJ										MI
		62.7	63.7	87	1	13.3	77.0	55.5	90	8	27	0.56	608	11.4	.	7.00	6.7	1		MJ										MI
		64.0	53.5	82	1	11.1	78.9	58.9	85	7	17	0.60	467	11.9	.	6.57	7.3	1		MJ										MJ
		65.7	52.4	81	1	10.6	78.1	57.7	115	6	20	0.54	497	9.7	.	6.16	7.3	1		MJ										MJ
		64.3	52.1	78	1	12.0	77.7	56.6	90	8	27	0.59	509	11.2	.	5.59	7.0	1		MJ										MI
		65.0	52.6	86	1	12.3	79.5	58.3	90	4	13	0.58	549	11.1	.	6.42	6.5	1		MJ										MI
		64.4	55.6	85	1	13.0	79.4	58.6	140	7	33	0.58	588	11.8	.	5.88	6.1	1		MJ										MI
		64.0	52.9	82	1	12.5	79.8	57.5	105	5	13	0.57	576	10.8	.	6.59	6.2	1		MJ										MJ
		64.7	57.1	86	1	11.9	77.3	56.1	95	4	13	0.60	472	11.1	.	6.52	6.0	1		MI										MI
		64.7	57.1	86	1	11.9	77.3	56.1	95	4	13	0.60	472	11.1	.	6.52	6.0	1		MJ										MI

DEFICIENCIES

AVG OF STANDARDS	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
MINOR FAULTING VALUES	64.1	48.1	1	11.6	77.8	56.1	155	23	10.4	.	5.57
MAJOR FAULTING VALUES	61.9	46.0	6	12.5	75.3	53.1	145	33	11.5	.	4.07
	61.0	45.0	11	11.5	74.3	52.1	140	38	11.0	.	3.32

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 16

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=DELIA AREA NURSEBY=ADVANCED

VARIETY	STD	TW	1000 KWT	LG	% SM	WHT PRO	EXT	SEMO EXT	DUS	MX	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	63.8	47.1	75	1	11.6	80.1	58.4	135	3	20	0.56	554	10.3	.	5.44	7.2	1		MI										
BAR .S.		65.0	55.9	84	1	11.2	78.1	57.3	120	7	17	0.52	609	10.1	.	6.13	6.5	1		MJ										
COOTS		62.9	47.4	79	1	12.0	82.2	57.8	90	6	33	0.58	544	9.8	.	6.48	6.4	1		MJ										
FER .S.		65.4	61.7	89	1	10.7	80.2	60.7	95	3	30	0.55	574	10.9	.	5.27	6.6	1		MJ										
FRIGATE .S.		64.2	50.3	60	1	12.9	76.7	56.7	120	6	23	0.61	645	11.7	.	5.77	6.0	1		MI										
GOW .S.		64.6	52.6	80	2	10.9	79.9	60.3	115	8	43	0.57	479	9.8	.	5.62	7.4	1		MJ										
J NK		63.6	49.5	82	1	11.3	77.4	56.2	105	5	20	0.57	616	10.6	.	5.27	6.5	1		MJ										
MOA .S.		64.5	52.9	82	1	11.5	79.8	58.8	115	7	23	0.57	593	10.2	.	6.07	6.2	1		MJ										
MODOC		66.0	48.8	73	1	12.0	77.5	57.2	115	7	23	0.59	564	10.7	.	6.16	6.9	1		MJ										
PEN .S.		65.9	56.5	86	1	11.6	76.9	57.8	105	8	43	0.56	550	10.8	.	5.92	6.9	1		MI										
STIFFTAIL .S.		66.4	59.2	89	1	12.1	78.8	59.8	110	2	10	0.53	480	10.9	.	5.46	5.7	1		MI										
TURN .S.		65.2	48.8	80	1	11.2	78.9	55.5	100	7	37	0.58	519	9.8	.	4.88	6.2	1		MJ										
WABA .S.		64.4	54.3	74	1	11.4	77.4	56.0	105	6	14	0.56	511	10.2	.	4.90	6.7	1		MJ										
WIN .S.	238/67	64.5	53.2	86	1	10.2	77.6	55.8	145	5	17	0.55	617	9.2	.	5.55	6.3	1		MI										
WIN .S.	238/106	63.7	52.9	86	1	11.5	77.6	55.8	145	5	17	0.55	617	9.2	.	5.55	6.3	1		MI										
YAVAROS .S.		65.6	52.9	78	1	11.0	78.7	58.2	105	3	27	0.53	531	10.6	.	5.90	6.9	1		MJ										
238/8		65.9	51.5	84	1	12.9	75.2	55.0	105	2	27	0.58	597	10.3	.	6.00	6.5	1		MJ										
238/11		63.6	48.8	80	1	11.8	77.9	56.8	115	5	30	0.57	554	11.5	.	6.83	7.6	1		MI										
238/12		63.5	54.9	77	1	11.9	78.9	58.1	90	6	17	0.59	624	10.8	.	7.06	6.4	1		MI										
238/21		64.5	53.8	89	1	12.2	78.9	58.0	100	2	3	0.63	723	10.8	.	5.53	6.9	1		MJ										
238/27		65.0	48.8	71	2	11.8	79.2	56.4	100	2	3	0.56	548	10.5	.	5.38	6.9	1		MJ										
238/30		63.9	47.4	75	1	11.9	79.6	56.1	110	3	13	0.58	511	10.8	.	6.61	7.2	1		MI										
238/33		64.1	44.6	71	1	12.0	79.4	55.9	110	5	17	0.58	521	10.2	.	6.61	7.2	1		MI										
238/94		61.1	53.5	87	1	12.0	79.5	58.3	95	7	20	0.59	606	10.8	.	6.98	6.6	1		MJ										
238/99		64.5	50.8	79	1	12.7	79.4	58.4	115	3	23	0.57	500	9.7	.	5.81	6.8	1		MJ										
238/104		64.1	52.4	85	1	12.1	80.0	59.1	90	3	20	0.53	538	10.6	.	6.50	6.5	1		MJ										
238/126		64.3	47.8	72	1	11.2	80.1	59.3	115	7	20	0.63	576	10.1	.	6.16	7.2	1		MJ										
238/128		64.1	50.5	70	1	10.2	78.7	58.6	115	8	23	0.60	642	9.1	.	6.11	7.0	1		MJ										
238/134		65.8	49.5	76	1	10.7	79.3	57.4	120	1	20	0.55	564	9.7	.	5.92	6.7	1		MJ										
238/136		64.9	56.2	85	1	11.5	76.5	58.2	125	2	33	0.56	582	10.5	.	6.07	7.1	1		MJ										
238/143		66.2	51.5	80	1	11.3	80.4	58.3	95	5	17	0.58	633	10.1	.	6.03	6.8	1		MI										
238/144		65.0	55.9	79	1	12.1	79.7	56.5	90	6	17	0.51	527	11.1	.	6.00	6.8	1		MI										

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES 61.6 45.0 6 12.5 77.6 55.4 125 30 11.5 . 5.44

MAJOR FAULTING VALUES 60.7 42.0 11 11.5 76.6 54.4 120 35 11.0 . 3.19

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 17

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA DIAICN=IMPERIAL VALLEY NURSERY=ADVANCED

VARIETY	SID	TW	1000 KWT	% LG SM	WHT PRO	EXT	SEM EXT	DUS	MX	SPK	MIN	FALL NO	SEM PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VT FR	
ALDURA	S	63.5	39.7	70	1	13.0	78.6	57.7	135	2	27	0.61	690	11.6	5.94	6.5	3		MJ					
ALGERIAN 88		63.8	57.1	87	2	14.9	77.2	56.8	105	6	30	0.58	558	12.8	7.15	5.6	1		MJ					
ANZA	S	64.2	36.4	60	1	12.6	64.5	47.6	170	2	97	0.35	487	9.6	6.46	5.3	1		MJ					
MEXICALI 75		62.9	60.6	87	1	12.6	77.0	58.1	115	5	47	0.61	497	11.1	6.24	7.0	3		MJ					
MODOC	S	64.6	45.7	72	1	12.9	77.5	54.6	120	5	30	0.59	565	11.4	6.80	6.8	3		MI					
YAVAROS		64.4	53.8	83	1	12.1	79.0	57.4	105	2	27	0.57	559	10.5	5.77	7.3	1		MI					
YECORA ROJO		63.9	48.3	72	1	13.3	67.7	49.2	60	8	99	0.40	596	11.5	6.42	5.3	1		MJ					
140/3		62.8	50.0	81	1	12.7	76.7	57.9	130	5	57	0.59	631	11.3	6.29	6.8	2		MJ					
140/7		64.8	52.9	87	1	12.7	78.9	57.7	100	2	30	0.55	645	11.0	6.07	7.1	1		MJ					
140/8		64.9	57.3	91	1	14.3	77.6	57.9	95	7	27	0.61	751	12.2	6.37	6.4	1		MJ					
140/22		64.7	62.1	95	1	13.8	78.6	57.7	85	3	40	0.55	714	12.2	6.35	7.4	1		MJ					
140/23		64.6	62.1	95	1	14.6	80.1	58.7	90	6	30	0.61	590	13.0	6.59	7.2	1		MJ					
140/43		64.7	54.3	84	1	12.4	80.6	60.0	105	3	50	0.57	645	10.9	5.92	6.9	1		MI					
140/48		64.8	54.1	88	1	13.5	79.1	52.7	100	4	53	0.63	578	11.7	6.16	7.6	1		MJ					
140/49		64.2	53.2	86	1	13.3	78.0	58.4	105	2	40	0.60	450	12.0	6.99	6.8	1		MJ					
140/50		64.5	51.5	87	1	14.4	79.6	58.3	95	4	30	0.59	584	12.6	6.98	6.3	1		MJ					
140/53		64.9	57.8	90	1	13.5	77.0	57.2	110	5	27	0.62	360	11.9	7.26	5.9	1		MI					
140/56		64.8	54.9	87	1	13.3	77.2	57.7	105	4	53	0.61	460	11.7	6.70	6.7	1		MJ					
140/62		65.7	52.9	86	1	12.1	78.7	58.7	105	2	43	0.57	600	10.5	6.80	6.3	1		MJ					
141/4		64.2	54.1	90	1	12.9	78.4	58.5	85	3	43	0.65	578	11.5	6.65	5.8	1		MI					
141/14		63.9	53.2	77	1	13.4	77.4	56.0	120	2	37	0.60	419	11.9	6.80	5.9	4		MJ					
141/19		64.1	57.8	86	1	13.0	77.3	59.0	105	3	33	0.56	614	11.4	6.80	5.8	1		MJ					
141/20		64.6	60.6	92	1	12.9	78.5	60.1	110	1	13	0.57	531	11.3	5.90	5.6	1		MI					
142/39		65.6	56.8	86	1	12.4	78.5	58.6	105	5	20	0.54	606	10.7	6.22	6.8	1		MJ					
142/50		63.5	52.6	85	1	12.2	78.8	57.6	120	7	57	0.61	657	10.8	6.57	7.1	1		MJ					
144/39		62.5	52.9	85	1	13.3	78.8	58.1	125	2	43	0.66	632	12.0	5.23	8.2	4		MI					
144/59		64.7	52.1	83	1	13.6	78.2	56.9	125	6	37	0.58	600	11.8	7.04	6.4	4		MJ					
144/72		62.5	51.0	77	1	13.1	80.0	56.8	95	4	50	0.60	424	11.7	6.20	7.6	1		MJ					
144/78		64.2	51.3	83	1	13.5	77.6	56.9	110	5	60	0.67	413	10.7	7.02	6.6	1		MI					
144/79		63.6	46.5	76	1	13.5	78.7	56.9	125	5	27	0.64	631	11.9	6.46	6.7	4		MJ					
145/70		63.5	52.4	86	1	13.3	79.0	57.3	110	4	43	0.61	504	11.7	6.67	6.3	2		MI					
145/76		62.5	52.5	91	1	13.3	79.0	58.4	100	4	53	0.61	554	11.8	5.57	6.6	1		MJ					
162/17138		64.8	49.0	82	1	13.2	79.7	57.1	120	1	43	0.78	373	11.8	5.12	7.3	1		MI					
162/17158		62.7	45.5	71	1	12.0	79.6	58.3	110	1	80	0.67	402	11.0	6.00	5.9	2		MI					
162/17170		62.4	46.3	64	1	13.1	78.7	58.6	125	2	53	0.67	638	11.5	5.79	6.7	1		MJ					
162/17174		62.1	46.3	63	1	12.8	79.0	58.0	100	2	53	0.63	439	10.6	6.31	7.1	1		MJ					
162/17186		62.1	46.0	34	2	12.4	78.0	56.0	95	5	67	0.64	472	10.6	6.39	6.3	1		MJ					
162/17190		62.0	37.2	30	2	12.4	78.1	56.4	90	4	93	0.59	453	10.9	6.67	7.0	1		MJ					
162/17218		61.6	48.3	29	1	13.3	79.5	57.2	105	5	43	0.64	583	11.8	6.80	7.0	1		MI					
162/17238		62.1	45.0	26	1	12.8	79.1	58.6	90	4	99	0.60	540	11.3	6.46	7.0	1		MJ					
162/17282		62.1	45.2	92	1	14.3	78.7	57.8	95	7	47	0.59	433	12.5	7.32	6.9	1		MI					
162/17290		61.8	53.5	85	1	12.3	78.8	57.9	140	3	47	0.60	619	10.3	6.24	6.7	1		MI					
162/17294		63.8	48.5	75	1	12.9	78.0	57.7	130	3	50	0.60	595	11.0	5.79	6.7	1		MJ					
162/17478		64.8	60.6	88	1	14.1	78.3	58.4	100	5	37	0.61	695	12.0	5.85	6.8	1		MJ					
162/17498		62.6	51.8	76	1	13.5	78.1	58.5	90	6	43	0.55	361	11.4	5.03	6.9	1		MI					
162/17502		63.0	47.6	74	1	13.9	78.8	57.4	95	7	30	0.63	607	12.2	6.98	6.3	1		MJ					
162/17506		63.9	57.1	88	1	13.3	79.7	59.0	100	7	60	0.59	419	11.6	6.52	6.7	1		MJ					
162/17515-516		63.8	55.9	85	1	14.7	79.1	58.7	100	6	27	0.61	710	13.2	7.06	6.2	1		MJ					
162/17526		63.6	54.6	86	1	13.8	78.6	58.8	90	4	37	0.59	586	11.9	7.00	6.4	1		MJ					
162/17534-35		62.2	55.9	98	1	14.4	75.8	53.5	85	8	47	0.60	400	12.7	6.67	6.9	1		MI					
162/17622		63.6	56.2	90	1	14.2	78.9	57.6	90	3	37	0.61	602	12.6	7.43	6.3	1		MJ					
171/14		63.5	53.8	82	1	13.2	78.9	58.1	85	7	37	0.60	639	11.3	7.15	7.1	1		MJ					
171/18		62.3	51.8	86	1	13.3	77.5	56.0	120	7	97	0.64	481	11.6	7.73	6.2	1		MJ					
171/19		63.0	47.8	81	1	13.5	79.1	56.6	95	5	50	0.60	575	11.7	6.57	7.8	1		MJ					
172/18		64.4	46.5	74	1	13.2	78.3	58.3	95	3	40	0.57	639	11.4	6.76	6.0	1		MI					
172/23		62.3	56.2	89	1	14.3	79.4	56.8	105	3	33	0.62	510	12.3	6.80	6.6	1		MJ					

DEFICIENCIES  
 AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 18

STATE=NEW YORK STATION=AURORA NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG SM	WHT PRO EXT	SEMO TOT EXT	SEMO EXT	DUS	MX	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RFS	VALU	**	TW	KW	SM	WP	TX	SK	SP	VI	FR
ALDURA	S	58.1	35.7	40	2	10.7	69.0	115	1	.	.	.	.	.	.	.	.	2	MI	MI	MI	MJ	MI	MI	MI	MI	MI
CALVIN	S	59.7	37.7	53	2	10.3	65.0	100	1	.	.	.	.	.	.	.	1	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
CANDO	S	56.0	40.2	71	1	11.8	72.0	175	3	.	.	.	.	.	.	.	1	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
MEXICALI 75	S	54.9	35.8	63	1	11.1	65.1	85	3	.	.	.	.	.	.	.	1	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
VIC	S	60.5	44.1	77	1	10.4	66.5	100	3	.	.	.	.	.	.	.	2	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
MAID	S	60.3	37.6	51	1	10.5	68.0	95	1	.	.	.	.	.	.	.	2	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
WB 803	S	55.5	40.7	64	2	10.2	69.0	90	2	.	.	.	.	.	.	.	2	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
WP 881	S	58.6	40.7	63	1	12.9	70.0	105	7	.	.	.	.	.	.	.	4	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
WPF-80-3A	S	59.7	42.6	70	1	11.3	66.5	85	1	.	.	.	.	.	.	.	1	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI
WPF-80-7	S	59.4	41.5	73	1	11.8	73.0	100	3	.	.	.	.	.	.	.	3	MI	MI	MI	MI	MJ	MI	MI	MI	MI	MI

DEFICIENCIES

AVG OF STANDARDS TW KW SM WP TX SK SP VI FR  
 MINOR FAULTING VALUES 58.2 40.0 1 11.0 . . .  
 MAJOR FAULTING VALUES 56.0 37.9 6 12.5 . . .  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 19

STATE=NEW YORK STATION=IOWACA=EARLY NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	X LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	57.8	36.6	43	2	11.3	58.0	105	1	.	.	.	.	.	.	.	1	1	MI	MI	MI	MJ	.	.	.	.	.	.	.
CALVIN	S	59.2	36.1	37	3	11.3	64.0	95	1	.	.	.	.	.	.	.	2	2	MI	MI	MI	MJ	.	.	.	.	.	.	.
CANDO	S	56.8	37.6	57	3	11.9	67.5	90	2	.	.	.	.	.	.	.	1	1	MI	MI	MI	MJ	.	.	.	.	.	.	.
MEXICALI 75	S	55.4	41.7	60	2	11.8	69.0	85	6	.	.	.	.	.	.	.	1	1	MI	MI	MI	MJ	.	.	.	.	.	.	.
VTC	S	59.2	42.7	64	2	11.8	67.0	105	5	.	.	.	.	.	.	.	3	3	MI	MI	MI	MJ	.	.	.	.	.	.	.
WAID	S	57.8	36.9	28	3	11.5	64.0	95	3	.	.	.	.	.	.	.	2	2	MI	MI	MI	MJ	.	.	.	.	.	.	.
WB 803	S	55.5	43.5	67	2	10.4	65.0	90	2	.	.	.	.	.	.	.	1	1	MI	MI	MI	MJ	.	.	.	.	.	.	.
WB 881	S	57.3	41.0	56	1	12.8	66.5	105	7	.	.	.	.	.	.	.	4	4	MI	MI	MI	MJ	.	.	.	.	.	.	.
WPF-80-3A	S	58.9	38.5	53	2	12.1	64.5	85	2	.	.	.	.	.	.	.	1	1	MI	MI	MI	MJ	.	.	.	.	.	.	.
WPF-80-7	S	57.1	41.0	61	1	11.8	63.5	110	6	.	.	.	.	.	.	.	3	3	MI	MI	MI	MJ	.	.	.	.	.	.	.

DEFICIENCIES

AVG OF STANDARDS TW KW SM WP TX SX DU SK SP VI FR

MINOR FAULTING VALUES 57.9 39.0 2 11.7 . 64.2 100 . 11.5 . .

MAJOR FAULTING VALUES 55.7 36.9 7 12.5 . 61.2 90 . 11.5 . .

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 20

STATE=NEW YORK STATION=IIHACA-LATE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG_SM	WHT PRO	TOT EXT	SEMO EXT	DUS	4X	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	53.9	34.5	23	4	14.8	59.5	105	4	.	.	.	.	.	.	.	4	.	.	MJ	MI	.	.	.	.	.	.	.	.
CALVIN	S	54.4	27.7	35	9	14.6	62.0	105	5	.	.	.	.	.	.	.	3	.	.	.	.	.	.	.	.	.	.	.	.
CANDO	S	54.4	35.3	35	3	15.0	58.5	105	8	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
MEXICALI 75	S	53.0	36.1	41	3	13.1	61.5	105	7	.	.	.	.	.	.	.	4	.	.	MI	.	.	.	.	.	.	.	.	.
VIC	S	58.4	38.9	42	3	13.8	65.0	125	7	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
MAIO	S	54.9	31.1	17	6	15.2	60.0	110	6	.	.	.	.	.	.	.	3	.	.	MJ	.	.	.	.	.	.	.	.	.
WB 803	S	53.3	35.7	38	3	13.2	60.0	110	8	.	.	.	.	.	.	.	4	.	.	MI	.	.	.	.	.	.	.	.	.
WB 881	S	54.7	35.1	37	2	15.1	62.0	125	8	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
WPF-80-3A	S	52.8	29.5	15	7	16.0	50.6	90	6	.	.	.	.	.	.	.	1	.	.	MI	MJ	.	.	.	.	.	.	.	.
WPF-80-7	S	54.4	32.9	19	4	14.6	59.5	125	8	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.

DEFICIENCIES

AVG OF STANDARDS TW 55.6 KW 36.2 SM 3 WP 14.5 TX SX DU SK SP VI FR

MINOR FAULTING VALUES 53.4 34.1 8 12.5 . 11.5 . . .

MAJOR FAULTING VALUES 52.5 31.1 13 11.5 . 57.0 88 . 11.0 . .

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1932 CROP

TABLE 21

STATE=NEW YORK STATION=LIVINGSTON NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMO EXT	OUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RFS	VALU	**	TW	RW	SM	WP	TX	DU	SK	SP	VI	FR
ALDURA	S	53.6	31.6	15	7	13.6	60.5	110	3	.	.	.	.	.	.	.	2	.	MJ	MJ	MI	.	.	.	.	.	.	.
CALVIN	S	50.5	30.9	12	9	13.9	63.0	100	4	.	.	.	.	.	.	.	3	.	MI	MJ	MI	.	.	.	.	.	.	.
CANDO	S	63.9	34.8	36	3	14.5	55.4	90	7	.	.	.	.	.	.	.	1	.	MJ	MI	MI	.	.	.	.	.	.	.
MEXICALI 75	S	51.7	29.1	17	7	14.2	58.9	80	5	.	.	.	.	.	.	.	1	.	MJ	MJ	.	.	.	.	.	.	.	.
VIC	S	61.1	46.9	71	2	13.4	67.5	125	5	.	.	.	.	.	.	.	4	.	MJ	MJ	.	.	.	.	.	.	.	.
WALD	S	55.5	31.0	11	7	14.6	59.0	120	2	.	.	.	.	.	.	.	2	.	MJ	MJ	.	.	.	.	.	.	.	.
WB 803	S	52.0	34.8	28	4	13.8	57.1	95	7	.	.	.	.	.	.	.	1	.	MJ	MI	.	.	.	.	.	.	.	.
WB 881	S	53.8	30.3	23	3	15.4	54.0	120	8	.	.	.	.	.	.	.	1	.	MJ	MJ	.	.	.	.	.	.	.	.
WPF-80-3A	S	56.5	33.2	27	2	15.0	59.0	90	5	.	.	.	.	.	.	.	1	.	MI	MI	.	.	.	.	.	.	.	.
WPF-80-7	S	55.0	28.8	17	5	14.8	50.0	110	8	.	.	.	.	.	.	.	1	.	MJ	MJ	.	.	.	.	.	.	.	.

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

TABLE 22

STATE=NEW YORK STATION=COMPOSITES NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG	% SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SN	MP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	56.1	33.3	34	3	12.5	74.5	53.3	140	3	47	0.77	661	11.6	.	6.46	6.7	3		MI										
CALVIN	S	58.0	32.8	28	4	12.2	74.0	52.4	130	3	63	0.73	622	11.5	.	6.85	6.3	1		MI										
CANDO	S	55.3	37.6	49	2	12.9	71.8	52.4	100	7	33	0.76	454	12.2	.	7.54	7.2	2		MI										
MEXICALI 75	S	54.8	34.8	54	2	12.1	75.0	53.5	110	8	43	0.81	629	11.3	.	7.21	7.4	2		MI										
VIC	S	60.1	42.9	66	1	12.0	73.8	53.7	100	7	47	0.62	628	11.6	.	6.85	6.8	4		MI										
WATO	S	57.7	33.8	30	2	12.6	74.7	53.1	130	3	40	0.73	591	11.8	.	7.26	7.5	1		MI										
WB 803	S	54.7	35.7	53	2	11.8	69.4	51.7	130	7	30	0.77	691	12.8	.	7.32	7.5	3		MI										
WB 881	S	56.6	37.2	46	2	13.6	73.7	53.1	140	8	73	0.79	999	12.8	.	8.32	7.5	3		MI										
WPF-80-3A	S	58.1	36.5	40	2	12.9	74.1	49.3	105	3	30	0.77	796	12.1	.	7.19	7.3	3		MI										
WPF-80-7	S	56.7	35.2	48	2	12.8	73.7	51.9	145	7	27	0.78	613	11.8	.	8.51	6.6	4		MI										

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 23

QUALITY DATA OF DURUM SAMPLES 1982 CROP

## STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

VARIETY	STD TW	1000 KWT	% LG SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SFMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SX	DU	SK	SP	VT	FR	DEFICIENCIES	
ALDURA	S	63.2	47.8	67	1	13.7	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
MODOC	S	65.1	47.8	73	3	13.9	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/4		65.3	52.9	84	1	14.8	•	•	•	•	•	•	•	•	•	•	1	•	•	•	•	•	•	•	•	•	•	•	•	•
262/5		63.7	50.5	75	2	13.9	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/7		64.3	63.2	86	2	14.1	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/8		64.8	51.5	75	1	14.1	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/26		63.4	50.0	77	2	14.3	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/28		62.2	49.0	69	1	14.9	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/30		65.0	46.3	77	1	14.1	•	•	•	•	•	•	•	•	•	•	1	•	•	•	•	•	•	•	•	•	•	•	•	•
262/33		62.9	44.8	77	1	13.6	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/34		64.0	46.5	73	1	13.7	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/43		62.9	43.7	74	1	13.9	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/45		65.4	50.5	84	1	13.7	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•
262/46		64.8	43.3	72	1	13.6	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/47		62.6	45.0	76	1	13.7	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/54		64.0	45.0	72	1	13.6	•	•	•	•	•	•	•	•	•	•	1	•	•	•	•	•	•	•	•	•	•	•	•	•
262/78		65.1	50.8	83	1	14.3	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/80		65.4	50.5	83	1	13.6	•	•	•	•	•	•	•	•	•	•	2	•	•	•	•	•	•	•	•	•	•	•	•	•
262/82		65.8	48.5	75	1	13.9	•	•	•	•	•	•	•	•	•	•	4	•	•	•	•	•	•	•	•	•	•	•	•	•

DEFICIENCIES  
AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CRDP

TABLE 24

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NUDSERY=PRELIMINARY

VARIETY	STD TW	1000 KWT	% LG_SM	WHT PRO EXT	SEMO EXT	DUS MX	SEMO SPK MIN	SEMO FALL NO	SEMO PRO	VI	FIRM	RES	**		DEFICIENCIES									
													VALU	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA MEXICALI YAVAROS	S 63.4	44.8	65	1 13.6	65.3	110	3	.	.	.	.	.	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
	S 64.2	54.1	89	1 13.0	71.8	100	7	.	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	65.4	53.8	87	1 12.5	69.4	90	3	.	.	.	.	.	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/91	65.0	46.3	81	1 14.0	67.6	100	3	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/105	64.0	42.7	69	1 14.2	67.1	90	3	.	.	.	.	1	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/111	63.8	50.3	75	2 14.4	64.7	100	5	.	.	.	.	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/126	63.4	45.2	69	1 13.9	67.6	95	4	.	.	.	.	2	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/135	63.5	47.1	78	1 14.0	68.2	115	3	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/136	64.8	46.3	79	1 13.7	67.6	115	5	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/140	64.2	59.9	91	1 14.8	70.0	100	5	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/141	63.8	49.3	78	1 14.1	68.8	100	3	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/142	64.2	48.3	71	2 14.0	69.4	110	6	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/171	65.1	47.8	77	2 14.1	68.8	105	3	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
	262/172	64.6	47.8	77	1 13.6	70.5	100	5	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	
262/173	65.0	46.1	65	2 13.9	66.4	115	3	.	.	.	.	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI		
262/174	64.3	40.2	48	3 14.0	69.4	110	4	.	.	.	.	3	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI		

DEFICIENCIES TW KW SM WP TX SX DU SK SP VI FR  
 AVG OF STANDARDS 63.8 49.4 1 13.3 68.5 105 11.5  
 MINOR FAULTING VALUES 61.6 47.3 6 12.5 65.5 95 11.0  
 MAJOR FAULTING VALUES 60.7 44.3 11 11.5 64.5 90 11.0  
 \*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

[illegible]

## DEFICIENCIES OF STANDARDS

DEFICIENT  
AVG OF STANDARDS

DEFICIENT  
AVG OF STANDARDS

DEFICIENT  
AVG OF STANDARDS

TABLE 26

QUALITY DATA OF DURUM SAMPLES 1982 CRMP

## STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG	SM	WHT PRO	TOI EXT	SEMO EXT	DOUS	%X	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SK	DU	SK	SP	VI	FR
ALDURA	S	64.3	46.5	67	1	13.2	•	66.4	115	3	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
MEXICALI 75	S	64.0	58.1	84	1	12.5	•	70.0	100	8	•	•	•	•	•	•	•	3	•	MI	•	•	•	•	•	•	•	•	•	•
MODOC-A 262/263	S	65.9	48.3	86	1	13.7	•	67.0	100	6	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
MODOC-B 262/267	S	65.6	48.1	77	1	13.4	•	65.2	100	7	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
YAVAROS	65.3	52.1	80	1	12.0	•	•	66.4	90	4	•	•	•	•	•	•	•	1	•	MI	•	•	•	•	•	•	•	•	•	•
262/277	64.6	46.9	72	1	13.9	•	•	70.5	120	6	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
262/278	63.7	49.8	65	1	13.6	•	•	62.9	95	7	•	•	•	•	•	•	•	1	•	MI	•	•	•	•	•	•	•	•	•	•
262/279	64.5	50.0	75	1	13.6	•	•	67.0	105	6	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
262/280	65.0	43.9	64	1	13.7	•	•	65.8	100	6	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•	•	•	•	•	•	•
262/281	64.2	44.1	67	1	13.9	•	•	66.4	110	7	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•	•	•	•	•	•	•
262/282	65.1	51.0	79	1	14.0	•	•	65.8	120	5	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
262/283	64.6	51.8	83	1	14.8	•	•	69.4	95	6	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/284	65.4	45.8	76	1	14.2	•	•	65.8	105	6	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•	•	•	•	•	•	•
262/285	62.4	48.3	77	1	13.2	•	•	65.8	100	7	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
262/286	62.9	42.7	51	2	13.1	•	•	65.2	110	8	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•	•	•	•	•	•	•
262/287	64.0	45.8	73	1	13.7	•	•	65.8	100	8	•	•	•	•	•	•	•	3	•	MJ	•	•	•	•	•	•	•	•	•	•
262/290	63.7	42.6	64	2	13.6	•	•	64.1	120	7	•	•	•	•	•	•	•	2	•	MJ	•	•	•	•	•	•	•	•	•	•
262/291	64.5	44.6	72	1	13.9	•	•	62.9	105	7	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/292	64.5	47.4	77	1	13.6	•	•	62.9	105	7	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/293	64.6	47.6	75	1	13.4	•	•	61.2	105	5	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/296	65.0	51.5	85	1	14.1	•	•	59.4	100	5	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/297	64.6	48.5	75	1	14.1	•	•	61.7	110	5	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/301	64.0	44.1	65	1	14.0	•	•	58.2	90	2	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/302	64.5	46.5	75	1	14.1	•	•	57.0	110	6	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/303	62.7	50.3	80	1	13.6	•	•	61.7	105	7	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/318	64.0	49.3	81	1	13.2	•	•	63.5	100	2	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/320	64.8	48.3	82	1	14.0	•	•	61.1	95	6	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/321	63.7	48.5	78	1	13.5	•	•	62.9	110	7	•	•	•	•	•	•	•	1	•	MI	•	•	•	•	•	•	•	•	•	•
262/322	63.7	47.8	74	1	13.6	•	•	58.8	110	7	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/325	63.7	44.8	73	1	14.1	•	•	60.5	100	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/326	65.4	49.5	81	1	13.6	•	•	55.8	100	6	•	•	•	•	•	•	•	2	•	MJ	•	•	•	•	•	•	•	•	•	•
262/327	64.5	45.8	77	1	13.2	•	•	57.6	115	7	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/328	64.6	43.3	75	1	14.0	•	•	57.0	110	7	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/329	64.6	43.5	65	1	14.0	•	•	58.2	110	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/330	63.8	45.2	76	1	13.7	•	•	63.5	110	7	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/333	64.3	41.7	63	2	13.6	•	•	58.2	100	6	•	•	•	•	•	•	•	2	•	MJ	•	•	•	•	•	•	•	•	•	•
262/334	64.6	50.0	73	2	13.7	•	•	47.6	110	4	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/335	64.5	41.5	61	1	14.1	•	•	54.7	100	7	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/336	63.7	43.5	73	2	13.9	•	•	54.1	100	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/337	64.3	43.8	78	1	14.3	•	•	55.2	100	6	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/338	64.3	45.8	79	1	14.0	•	•	54.7	115	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/340	64.6	47.6	76	1	13.4	•	•	55.2	110	6	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/341	64.5	46.3	70	1	13.3	•	•	54.7	105	4	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/344	64.6	43.7	65	1	13.7	•	•	50.0	115	5	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/346	65.1	41.5	75	2	13.4	•	•	47.6	105	5	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/348	64.3	45.5	78	1	14.2	•	•	45.8	100	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/350	64.2	44.1	65	1	13.6	•	•	44.1	110	6	•	•	•	•	•	•	•	1	•	MJ	•	•	•	•	•	•	•	•	•	•
262/351	64.8	46.1	67	1	13.9	•	•	69.4	110	5	•	•	•	•	•	•	•	4	•	MI	•	•	•	•	•	•	•	•	•	•
262/353	65.3	45.2	81	1	13.8	•	•	•	•	•	•	•	•	•	•	•	•	2	•	MJ	•	•	•	•	•	•	•	•	•	•
262/354	64.2	48.8	78	1	14.9	•	•	•	105	5	•	•	•	•	•	•	•	2	•	MI	•	•	•	•	•	•	•	•	•	•
262/355	65.1	45.2	73	1	14.2	•	•	•	120	5	•	•	•	•	•	•	•	2	•	MJ	•	•	•	•	•	•	•	•	•	•
262/356	65.0	45.7	72	1	15.1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•	•

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 27

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG <sub>SM</sub> %	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SH	WP	TX	DU	SK	SP	VI	FR
ALDURA	S	63.4	49.3	58	1	13.7	68.3	115	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
MODOC	S	65.6	47.4	71	2	13.6	46.6	100	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/362	S	63.4	45.2	59	1	14.7	57.6	120	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/363	S	65.1	46.7	70	1	14.4	60.5	105	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/364	S	64.6	45.8	72	1	14.6	53.5	120	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/385	S	64.3	46.7	68	2	14.6	68.8	120	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/386	S	64.8	44.6	59	2	14.0	75.8	110	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/387	S	64.2	44.2	59	1	14.6	69.3	115	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/369	S	64.3	44.8	69	1	14.6	69.4	100	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/370	S	65.0	45.0	71	2	14.8	69.4	100	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/371	S	65.0	47.6	72	1	15.0	68.3	100	2	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/372	S	64.2	46.5	74	1	15.5	68.3	110	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/373	S	65.3	46.7	71	1	14.3	68.8	110	2	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/374	S	64.0	42.3	61	2	13.7	71.1	110	5	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/375	S	64.2	45.5	59	2	14.3	68.8	110	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/376	S	63.5	41.0	55	1	14.1	69.4	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/377	S	63.7	41.3	52	1	14.3	65.5	110	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/379	S	65.0	44.4	74	1	14.5	67.2	110	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/381	S	64.5	40.7	61	1	13.4	71.1	110	3	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/386	S	63.2	44.8	72	1	13.8	68.3	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/389	S	63.2	46.1	77	1	13.5	72.2	115	5	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/391	S	64.8	45.7	70	1	13.0	71.6	100	5	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/397	S	64.6	49.0	81	1	14.2	67.2	105	5	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/398	S	64.6	50.0	83	1	13.4	70.5	110	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/399	S	65.3	49.8	80	1	13.8	69.4	105	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/403	S	64.6	51.3	83	1	14.7	69.4	100	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/405	S	64.5	49.8	85	1	14.2	71.1	100	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/406	S	64.8	49.5	77	1	13.9	70.5	110	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/407	S	64.0	44.8	61	1	13.7	70.0	90	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/409	S	64.3	50.0	83	1	14.4	67.2	105	4	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/426	S	62.4	52.4	72	1	14.4	68.3	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/429	S	63.2	53.5	77	1	13.8	68.8	100	8	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/431	S	64.8	49.0	75	1	13.7	70.0	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/432	S	64.2	46.3	73	2	13.5	70.5	110	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/434	S	65.0	49.8	63	1	13.3	70.0	100	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/435	S	65.4	52.4	81	1	13.5	70.0	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/436	S	63.2	40.7	57	2	12.9	67.7	100	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/438	S	64.5	45.0	63	1	12.9	68.3	105	8	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/439	S	64.0	49.8	72	1	13.1	69.4	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/440	S	65.4	47.8	77	1	13.4	70.0	105	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/441	S	64.8	45.7	65	2	13.5	66.6	110	6	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
262/442	S	64.8	45.7	70	1	13.6	68.3	110	7	7	4	4	4	4	4	4	4	4	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

TW 64.5  
 KW 48.3  
 LG 62.3  
 SM 46.2  
 WHT 61.4  
 PRO 43.2  
 EXT 11.5  
 TX 13.6  
 DU 6  
 SK 11  
 SP 11.5  
 VI 11.5  
 FR 11.5

TABLE 28

QUALITY DATA OF DURUM SAMPLES 1982 CROP

## STATE-CALIFORNIA-STATION=IMPERIAL-VALLEY-NURSERY=PRELIMINARY

VARIETY	STD TW	1000 KWT	X LG-SM	WHT PRO EXT	SEM0 EXT	DUS	MX	SPK	SEM0 MIN	FALL NO	SEM0 PRO	VI	FIRM	RES	VALU	**	DEFICIENCIES										
																	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR
ALDURA	S	63.8	45.0	56	1	13.4	•	•	69.5	125	3	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
MEXICALI 75	S	61.7	55.9	82	1	12.6	•	•	73.2	105	7	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
MODOC	S	65.1	44.1	68	1	13.3	•	•	70.5	110	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
YAVAROS	S	64.8	50.5	72	1	12.2	•	•	72.1	100	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/453	S	65.1	50.3	65	1	12.5	•	•	69.5	95	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/461	S	64.6	49.3	75	1	13.2	•	•	71.1	110	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/463	S	64.5	51.0	66	1	13.8	•	•	67.9	115	7	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/479	S	65.4	46.5	67	1	14.1	•	•	69.4	100	6	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/481	S	64.5	53.5	93	1	14.1	•	•	71.1	100	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/482	S	64.5	48.3	75	1	13.7	•	•	71.1	110	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/486	S	64.6	47.1	79	1	14.1	•	•	71.1	105	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/488	S	65.3	48.3	85	1	14.0	•	•	70.0	115	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/490	S	64.5	44.4	60	1	13.6	•	•	71.1	105	6	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/491	S	65.0	49.8	75	1	13.7	•	•	72.2	100	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/492	S	65.6	49.0	75	1	13.6	•	•	70.5	105	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/502	S	64.8	46.7	71	1	13.6	•	•	70.0	105	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/503	S	65.4	49.3	84	1	14.2	•	•	69.4	125	6	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/506	S	64.8	49.0	79	1	13.6	•	•	70.6	105	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/512	S	65.0	47.8	75	1	14.0	•	•	70.6	100	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/522	S	62.7	55.2	79	1	13.2	•	•	71.6	105	8	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/524	S	64.6	60.2	89	1	14.4	•	•	71.1	120	7	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/528	S	63.2	56.2	93	1	14.4	•	•	70.6	100	7	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/582	S	64.3	57.1	88	1	13.6	•	•	72.8	110	3	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/584	S	64.0	57.8	91	1	13.6	•	•	72.8	105	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/585	S	63.8	54.3	89	1	12.8	•	•	72.1	105	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/586	S	64.3	54.6	85	1	13.2	•	•	72.6	110	3	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/589	S	64.3	54.3	90	1	13.1	•	•	72.6	110	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/599	S	61.8	51.0	77	1	13.6	•	•	70.5	110	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/602	S	63.4	46.7	77	1	13.8	•	•	71.7	105	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/604	S	63.7	48.1	69	2	13.4	•	•	70.0	110	3	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/605	S	62.1	44.2	57	2	13.3	•	•	69.4	115	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/609	S	63.8	52.9	80	2	13.1	•	•	67.9	110	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/616	S	62.9	44.2	60	2	12.8	•	•	67.2	105	4	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•
262/617	S	63.0	51.0	70	1	13.8	•	•	68.9	110	5	•	•	•	•	•	•	MI	•	•	•	•	•	•	•	•	•

DEFICIENCIES TW KW SM WP TX SX DU SK SP VI FR

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 29

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	NO	FAIL	SEMO PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SK	SP	VI	FR	DEFICIENCIES
ALDURA	S	63.0	48.5	50	1	13.6	66.1	120	4									4	MI									MI
MEXICALI 75	S	64.2	62.1	91	1	12.9	72.1	105	8									4	MI									MI
MODOC	S	65.3	49.8	69	2	13.0	68.9	105	5									4	MI									MI
YAVAROS		65.9	57.3	85	1	13.0	69.5	100	5									1										MI
262/632		63.8	57.3	83	1	13.1	72.1	100	5									2										MI
262/671		64.3	52.9	81	1	13.0	71.6	120	5									4										MI
262/672		65.3	56.2	86	1	14.1	68.4	100	6									2										MI
262/674		65.0	53.5	87	1	13.8	70.0	105	7									4										MI
262/676		63.4	55.9	85	1	13.0	67.2	105	6									4										MI
262/682		64.5	49.5	78	1	13.2	69.4	110	6									4										MI
262/686		64.5	54.3	89	1	13.3	86.1	110	6									4										MI
262/688		64.3	53.5	88	1	14.4	62.8	100	7									4										MI
262/690		64.5	58.8	93	1	14.5	60.6	100	5									1										MI
262/695		64.6	51.5	84	1	13.6	70.6	105	7									4										MI
262/696		64.6	51.3	83	1	13.1	70.6	100	5									2										MI
262/721		65.1	41.8	67	1	13.0	68.3	115	4									3										MI
262/723		65.0	43.1	65	1	12.9	68.9	110	4									3										MI
262/724		65.1	39.1	53	1	12.9	67.8	105	4									3										MI
262/725		64.8	40.7	60	1	12.9	70.0	115	4									3										MI
262/727		64.2	41.3	61	1	13.3	66.7	95	5									1										MJ
262/728		64.6	39.2	46	1	13.1	68.9	110	4									3										MJ
262/729		63.7	40.3	64	1	12.7	70.0	110	3									3										MJ
262/730		64.0	41.0	55	1	12.9	69.4	105	5									3										MJ
262/731		64.8	42.0	71	1	13.1	71.1	120	5									3										MJ
262/732		64.3	40.8	70	1	13.2	69.4	105	4									3										MJ
262/736		65.0	51.3	84	1	13.7	70.0	105	5									4										MJ
262/737		65.0	43.3	68	1	12.7	70.6	95	6									1										MJ
262/738		63.7	50.3	83	1	13.3	71.1	105	7									4										MJ
262/740		63.8	44.1	65	1	12.6	66.7	105	7									4										MJ
262/744		63.7	44.6	68	1	13.4	70.0	100	6									3										MJ
262/759		61.0	45.8	73	1	14.1	70.6	120	5									1										MJ
262/760		64.8	41.3	70	1	13.3	67.9	100	5									2										MJ
262/769		64.5	49.0	79	2	13.2	70.6	100	5									1										MJ
262/770		64.6	48.8	73	1	13.1	69.5	95	5									1										MJ
262/771		65.0	45.2	69	1	13.6	71.1	110	6									3										MJ
262/773		65.1	44.4	50	2	13.3	72.2	110	8									3										MJ
262/776		64.5	48.5	68	1	13.2	71.1	110	5									3										MJ
262/778		63.9	43.5	51	2	12.6	68.8	110	6									4										MJ
262/784		62.6	56.5	87	1	13.3	65.8	125	7									3										MJ
262/787		63.7	57.3	83	2	13.4	65.8	120	6									3										MJ

DEFICIENCIES  
 AVG OF STANDARDS 64.2 53.5 1 13.2  
 MINOR FAULTING VALUES 62.0 51.4 6 12.5  
 MAJOR FAULTING VALUES 61.1 48.4 11 11.5  
 \*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF OURUM SAMPLES 1982 CPDP

[illegible]

TABLE 31

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	X LG_SM	WHT PRO EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	DEFICIENCIES				
																	TP	TX	SK	SP	VI
ALDURA	S	65.0	44.2	73	2	13.3	68.4	100	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
MEXICALI 75	S	65.8	45.5	75	1	13.4	66.0	105	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
MODOC	S	64.3	51.0	80	2	12.5	73.2	105	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
YAVAROS	2	65.0	49.8	71	1	13.6	70.0	110	5	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/813	2	64.2	44.6	62	2	13.1	71.1	109	5	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/814	2	64.6	46.9	65	2	13.1	70.5	105	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/815	2	65.0	48.8	70	1	13.0	72.2	105	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/816	2	65.0	49.0	76	1	13.1	73.2	105	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/818	2	64.3	43.3	59	1	12.6	71.1	100	4	4	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/819	2	65.0	48.8	72	1	13.3	72.1	100	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/821	2	64.0	39.1	43	3	13.0	70.6	110	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/830	2	62.9	40.0	52	1	13.6	69.4	100	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/831	2	64.2	45.0	69	1	13.1	70.0	110	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/840	2	64.5	46.7	74	1	13.9	70.0	100	4	4	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/845	2	63.0	46.5	67	1	12.9	71.7	100	3	3	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/849	2	62.1	43.7	72	1	14.6	69.4	120	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/853	2	63.7	49.0	74	1	13.9	71.1	120	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/858	2	64.0	46.3	73	1	14.3	63.3	105	8	8	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/860	2	64.3	47.4	79	1	14.6	71.1	110	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/863	2	63.7	49.8	71	1	14.4	72.2	100	4	4	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/864	2	64.5	46.5	80	1	14.1	74.4	115	5	5	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/867	2	64.3	48.1	78	1	14.4	71.1	100	3	3	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/868	2	64.3	44.2	70	1	14.7	73.3	110	3	3	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/869	2	63.7	40.8	61	1	13.7	72.8	120	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/870	2	63.0	44.8	63	1	13.7	72.8	120	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/871	2	62.2	45.2	73	1	13.9	71.1	120	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/872	2	63.5	44.4	65	1	13.7	72.2	105	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/873	2	63.8	41.2	56	1	13.6	71.7	110	5	5	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/874	2	63.8	43.7	71	1	13.9	71.7	110	5	5	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/875	2	63.7	43.3	62	1	13.9	71.7	120	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/876	2	64.3	46.7	67	1	14.0	68.8	120	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/877	2	63.7	49.3	80	1	14.9	67.2	105	6	6	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/881	2	64.3	45.8	71	1	13.4	66.1	110	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/886	2	64.2	45.8	73	1	13.7	70.6	115	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/887	2	64.5	45.2	67	1	13.3	68.3	110	7	7	..	..	..	..	..	..	MI	MI	MI	MI	MI
262/890	2	63.8	43.7	63	1	13.4	71.1	120	6	7	..	..	..	..	..	..	MI	MI	MI	MI	MI

DEFICIENCIES  
AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 32

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA-STATION=IMPERIAL-VALLEY-NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG-SM %	WHT PRU	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO FALL NO	PRO	VI	FIRM	RES	VALU	**										DEFICIENCIES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
																	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ALDURA NEXICAL I 75 MODOC	S	63.0	45.5	62	1	13.5	67.8	115	4	.	.	.	.	.	.	.	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI</

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

TABLE 33

VARIETY	STD	TW	1000 KWT	% LG_SM	WHT PHO	TOT EXT	SEMO EXT	DUS	MX	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	** TW	KW	SM	WP	TX	SK	DU	SP	VI	FR	DEFICIENCIES
MODOC 262/958	S	64.8	45.5	65	1	12.9	70.0	110	6	.	.	.	.	.	.	.	.	4	MI	.	.	.	.	.	.	.	.	MJ
262/960		62.2	56.8	82	1	14.5	72.2	95	8	.	.	.	.	.	.	.	.	1	MJ	.	.	.	.	.	.	.	.	MJ
262/962		63.7	47.1	70	1	12.7	70.0	95	6	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.
262/966		64.8	45.5	65	1	12.8	68.3	115	6	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.
262/968		65.0	51.0	78	1	13.0	71.1	105	7	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.
262/969		65.3	54.3	82	1	12.6	69.4	100	6	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	MI
262/971		64.6	48.3	73	1	13.1	70.0	110	3	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.
262/975		63.7	51.0	78	2	13.6	68.8	110	3	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.
262/979		65.0	52.9	85	2	14.9	70.0	100	6	.	.	.	.	.	.	.	.	2	MI	.	.	.	.	.	.	.	.	MI
262/980		64.6	47.4	74	2	13.4	69.4	95	5	.	.	.	.	.	.	.	.	1	MJ	.	.	.	.	.	.	.	.	MI
262/981		65.0	49.3	75	2	13.6	68.8	100	5	.	.	.	.	.	.	.	.	2	MI	.	.	.	.	.	.	.	.	MI
262/982		64.6	55.9	80	2	13.2	70.5	100	5	.	.	.	.	.	.	.	.	2	MI	.	.	.	.	.	.	.	.	MI
262/985		65.4	46.3	70	1	13.1	68.5	100	5	.	.	.	.	.	.	.	.	2	MI	.	.	.	.	.	.	.	.	MI

DEFICIENCIES TW KW SM WP TX SK DU SK SP VI FR  
 AVG OF STANDARDS 64.8 45.5 1 12.9 . .  
 MINOR FAULTING VALUES 62.6 43.4 6 12.5 . .  
 MAJOR FAULTING VALUES 61.7 40.4 11 11.5 . .  
 \*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES

STATE=CALIFORNIA STATION=IMPERIAL VALLEY NURSERY=PRELIMINARY

DEFICIENCIES	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
AVG OF STANDARDS	64.5	49.0	2	13.4	.	66.7	97	.	.	.	.
MINOR FAULTING VALUES	62.3	46.9	7	12.5	.	63.7	87	.	11.5	.	.
MAJOR FAULTING VALUES	61.4	43.9	12	11.5	.	62.7	82	.	11.0	.	.

QUALITY DATA OF DURUM SAMPLES 1982 CROP

~~STATE=CALIFORNIA STATION=IULELAKE NURSERY=PRELIMINARY~~

[illegible]

TABLE 35 (Cont.)

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IVLELAKE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG SH	WHT PHO	TOT EXT	SEMO EXT	DUS	MX	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VI FK
TL82-50	62.4	43.9	58	1	13.0	63.5	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-51	61.6	43.5	58	2	13.2	62.5	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-52	61.6	45.8	66	1	12.0	68.0	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-53	60.8	42.9	71	1	11.9	69.0	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-54	61.8	48.5	74	1	11.9	69.5	95	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-55	60.2	42.9	47	2	13.0	65.0	110	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-56	60.8	50.5	66	1	12.9	64.0	100	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-57	61.4	49.5	68	1	13.4	64.0	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-58	61.8	50.8	75	1	13.2	65.5	105	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-59	61.8	44.8	58	2	12.0	65.5	90	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-60	61.3	42.9	46	1	12.3	64.5	85	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-61	62.7	45.5	62	1	13.2	65.0	100	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-62	61.0	39.7	22	2	13.5	63.5	95	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-63	61.9	45.8	56	1	12.9	66.0	90	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-64	62.6	43.9	50	1	12.9	62.5	90	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-65	62.4	43.1	54	2	12.0	63.5	85	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-66	62.2	47.6	62	1	11.8	63.5	90	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-67	61.8	35.7	30	3	12.5	61.0	85	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-68	59.0	42.9	45	1	12.5	63.0	95	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-69	58.9	34.4	31	4	12.8	65.0	105	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-70	62.1	42.6	50	1	12.3	64.5	100	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-71	61.3	50.0	71	1	12.6	67.5	105	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-72	60.5	46.3	64	3	12.6	65.0	105	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-73	60.8	39.7	42	1	12.8	67.0	105	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-74	60.8	44.4	66	2	13.5	64.0	110	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-75	60.0	39.4	49	2	12.6	64.5	110	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-76	61.4	41.0	63	1	12.5	66.0	105	7	7	7	7	7	7	7	7	7	7	MI	NJ	MI	MI	
TL82-77	63.0	49.5	65	1	12.5	66.5	95	8	8	8	8	8	8	8	8	8	8	MI	NJ	MI	MI	
TL82-78	60.0	42.0	31	2	13.0	67.5	105	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-79	62.1	43.1	54	2	12.5	67.5	105	8	8	8	8	8	8	8	8	8	8	MI	NJ	MI	MI	
TL82-80	60.0	37.7	42	2	12.2	68.5	115	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-81	61.1	38.2	52	2	12.4	63.5	110	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-82	58.7	36.5	28	5	13.0	63.5	105	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-83	61.6	48.3	64	1	12.5	66.0	105	2	2	2	2	2	2	2	2	2	2	MI	NJ	MI	MI	
TL82-84	60.0	35.0	31	4	13.2	70.0	100	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-85	62.2	49.0	80	1	12.2	73.5	105	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-86	62.1	52.1	70	1	11.8	73.0	100	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-87	58.4	22.8	43	2	13.0	69.5	85	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-88	59.5	40.7	50	3	12.5	72.0	105	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-89	60.8	41.8	52	1	13.1	69.0	105	6	6	6	6	6	6	6	6	6	6	MI	NJ	MI	MI	
TL82-90	62.1	34.5	43	2	12.4	70.0	110	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-91	59.5	32.2	22	5	12.6	68.0	110	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-92	58.7	33.4	36	2	13.5	66.0	100	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-93	61.4	40.3	51	1	12.6	69.0	100	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	
TL82-94	59.5	38.2	22	3	12.3	66.5	95	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-95	62.1	41.2	71	1	13.6	68.5	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-96	62.4	42.9	71	1	13.3	67.0	100	3	3	3	3	3	3	3	3	3	3	MI	NJ	MI	MI	
TL82-97	61.3	38.5	44	2	13.6	67.5	115	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-98	61.0	38.3	39	2	13.6	66.5	115	4	4	4	4	4	4	4	4	4	4	MI	NJ	MI	MI	
TL82-99	62.1	41.5	52	1	12.3	67.0	110	5	5	5	5	5	5	5	5	5	5	MI	NJ	MI	MI	

TABLE 35 (Cont.)

QUALITY DATA OF DURUM SAMPLES 1982 CHOP  
 STATE=CALIFORNIA STATION=TOLELAKE NURSEY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	X LG SM	WHT PRO	TOI EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	DEFICIENCIES TX SX DU SK SP VI FR
TL82-100	61.0	43.9	76	1	12.7	•	68.5	115	6	•	•	•	•	•	•	•	•	4	MI	MI	•	•	•
TL82-101	59.5	43.5	62	2	11.9	•	70.5	115	4	•	•	•	•	•	•	•	•	4	MI	MI	•	•	•
TL82-102	60.6	47.4	84	1	12.6	•	69.5	100	3	•	•	•	•	•	•	•	•	4	MI	MI	•	•	•
TL82-103	62.4	52.9	90	1	14.0	•	68.0	105	7	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-104	61.6	51.3	84	1	12.2	•	69.0	85	2	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-105	61.0	26.4	85	1	12.4	•	70.5	100	5	•	•	•	•	•	•	•	•	1	MI	MI	•	•	•
TL82-106	59.7	41.2	62	2	12.2	•	67.5	110	6	•	•	•	•	•	•	•	•	2	MI	MI	•	•	•
TL82-107	62.9	49.3	80	1	12.3	•	69.5	105	3	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•
TL82-108	62.2	46.9	72	1	11.2	•	70.0	105	2	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•
TL82-109	60.2	42.7	51	1	13.0	•	67.5	115	5	•	•	•	•	•	•	•	•	2	MI	MI	•	•	•
TL82-110	63.2	51.0	80	1	13.0	•	65.5	95	3	•	•	•	•	•	•	•	•	2	•	•	•	•	•
TL82-111	62.2	47.6	72	1	12.8	•	68.0	115	3	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-112	61.8	53.5	80	1	13.2	•	66.5	100	2	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-113	63.2	51.8	84	1	13.0	•	67.5	100	2	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-114	62.2	49.5	82	1	13.2	•	67.5	95	2	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-115	61.6	53.2	86	1	11.5	•	70.5	105	2	•	•	•	•	•	•	•	•	2	MI	MI	•	•	•
TL82-116	62.2	49.0	74	1	11.9	•	69.0	95	2	•	•	•	•	•	•	•	•	1	MI	MI	•	•	•
TL82-117	61.3	53.5	80	1	11.9	•	65.0	95	2	•	•	•	•	•	•	•	•	1	MI	MI	•	•	•
TL82-118	62.9	51.0	78	1	12.4	•	67.5	95	3	•	•	•	•	•	•	•	•	1	MI	MI	•	•	•
TL82-119	61.4	47.4	76	1	13.4	•	67.5	95	5	•	•	•	•	•	•	•	•	1	MI	MI	•	•	•
TL82-120	61.9	53.2	85	1	13.1	•	70.0	100	4	•	•	•	•	•	•	•	•	2	MI	MI	•	•	•
TL82-121	61.6	47.8	68	1	12.2	•	70.5	100	4	•	•	•	•	•	•	•	•	4	•	•	•	•	•
TL82-122	63.0	42.9	58	1	12.9	•	69.0	105	3	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•
TL82-123	63.5	43.7	50	1	13.5	•	67.0	110	3	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•
TL82-124	61.8	41.7	51	1	13.5	•	68.0	110	4	•	•	•	•	•	•	•	•	4	MI	MI	•	•	•
TL82-125	62.2	44.6	64	1	12.0	•	67.0	85	2	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•
TL82-126	62.4	36.4	44	2	12.6	•	69.5	110	5	•	•	•	•	•	•	•	•	3	MI	MI	•	•	•

DEFICIENCIES  
 TW KW SM WP TX SX DU SK SP VI FR  
 AVG OF STANDARDS 63.4 48.8 1 13.6  
 MINOR FAULTING VALUES 61.2 46.7 6 12.5  
 MAJOR FAULTING VALUES 60.3 43.7 11 11.5  
 \*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

TABLE 36

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IULU ELAKE NURSERY=PRELIMINARY

VARIETY	STD TW	1000 KWT	% LG SM	WHT PRO	TOT EXT	SEMO EXT	DUS MX	SPK MIN	SEMO FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	RW	SW	WP	TX	SX	DU	SK	SP	VI	FR
MEXICALI	S	61.1	55.9	89	1	13.2	71.5	95	6	..	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..
MUDOC	S	62.9	45.5	82	1	13.7	66.5	105	5	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
PRODURA		63.2	51.0	88	1	14.4	66.5	80	4	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	MJ
TL82-253		60.3	42.9	60	1	13.3	67.5	110	7	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
TL82-254		62.4	49.3	67	1	13.5	69.5	95	3	..	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..
TL82-255		61.1	37.2	44	1	12.8	65.5	100	4	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	MI
TL82-256		61.9	54.1	89	1	13.5	67.0	95	4	..	..	..	..	..	4	..	..	..	..	..	..	..	..	..	..	..
TL82-257		60.6	49.8	77	1	11.8	67.0	80	3	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-258		63.0	55.9	88	1	12.7	66.5	75	3	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-259		62.2	45.2	88	1	13.4	66.5	85	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-260		62.1	49.3	76	1	13.0	65.0	80	5	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-261		62.1	43.1	78	1	12.8	65.5	85	3	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-262		61.1	41.8	68	1	12.5	66.5	110	7	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-263		60.2	37.2	55	1	12.7	64.5	120	6	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-264		61.6	52.6	83	1	13.2	66.0	105	5	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..
TL82-265		61.0	40.0	64	1	12.1	63.5	90	4	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-266		60.0	50.0	83	1	13.4	67.0	90	3	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-267		61.6	49.0	87	1	13.8	64.5	90	3	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-268		60.0	49.5	84	1	13.0	65.0	115	3	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-269		59.7	47.1	81	1	12.9	66.0	90	5	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-270		61.0	44.2	78	1	14.9	66.0	100	3	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-271		59.5	51.0	86	1	12.6	67.0	85	4	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-272		61.0	42.0	57	1	12.9	63.5	100	3	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-273		60.6	46.7	75	1	12.9	65.0	105	4	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-274		62.4	52.7	87	1	12.2	64.5	100	7	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
TL82-275		61.9	49.8	79	1	13.5	64.5	100	6	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-276		62.1	46.1	81	1	14.2	62.5	100	6	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..
TL82-278		61.6	49.3	70	1	13.6	65.5	110	4	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..

## DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=TULE LAKE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG-SH	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	TW-RW-SM-WP	DEFICIENCIES IX SX DU 5K-SP-VI-FR---
MUDOC	S	62.7	44.2	83	1	1	69.0	105	4	3	105	105	105	105	105	105	105	MI	MJ
TL82-365		62.2	40.8	67	1	1	68.5	100	4	4	100	100	100	100	100	100	100	MI	MJ
TL82-366		60.5	46.1	80	1	1	66.5	105	4	4	105	105	105	105	105	105	105	MI	MJ
TL82-367		62.4	50.3	86	1	1	65.0	110	2	3	110	110	110	110	110	110	110	MI	MJ
TL82-368		61.9	41.8	68	1	1	66.0	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-369		62.2	46.3	71	1	1	66.0	105	3	3	105	105	105	105	105	105	105	MI	MJ
TL82-370		61.9	39.4	70	1	1	64.5	110	4	2	110	110	110	110	110	110	110	MI	MJ
TL82-371		61.8	51.0	84	1	1	64.0	95	2	3	95	95	95	95	95	95	95	MI	MJ
TL82-372		59.8	42.7	61	1	1	62.0	95	3	3	95	95	95	95	95	95	95	MI	MJ
TL82-373		61.3	50.3	86	1	1	62.5	100	4	4	100	100	100	100	100	100	100	MI	MJ
TL82-374		61.1	48.8	78	1	1	63.5	105	3	3	105	105	105	105	105	105	105	MI	MJ
TL82-375		61.0	56.5	86	1	1	64.0	95	5	5	95	95	95	95	95	95	95	MI	MJ
TL82-376		61.1	44.8	68	1	1	61.0	110	2	5	110	110	110	110	110	110	110	MI	MJ
TL82-377		61.0	54.9	89	1	1	61.0	105	4	4	105	105	105	105	105	105	105	MI	MJ
TL82-378		60.8	47.1	70	1	1	62.0	110	5	5	110	110	110	110	110	110	110	MI	MJ
TL82-379		59.8	44.6	78	1	1	62.0	100	5	5	100	100	100	100	100	100	100	MI	MJ
TL82-380		60.8	53.8	87	1	1	64.0	90	3	3	90	90	90	90	90	90	90	MI	MJ
TL82-381		59.4	39.2	77	1	1	63.5	110	5	4	110	110	110	110	110	110	110	MI	MJ
TL82-382		60.0	51.3	89	1	1	58.0	100	4	3	100	100	100	100	100	100	100	MI	MJ
TL82-383		58.6	47.6	88	1	1	62.5	105	3	3	105	105	105	105	105	105	105	MI	MJ
TL82-384		60.8	50.0	84	1	1	63.5	105	5	5	105	105	105	105	105	105	105	MI	MJ
TL82-385		59.5	60.2	93	1	1	61.5	105	3	3	105	105	105	105	105	105	105	MI	MJ
TL82-386		60.2	45.0	80	1	1	64.0	110	3	3	110	110	110	110	110	110	110	MI	MJ
TL82-387		60.3	54.6	87	1	1	60.5	80	5	5	80	80	80	80	80	80	80	MI	MJ
TL82-388		61.1	35.6	62	1	1	62.0	105	4	4	105	105	105	105	105	105	105	MI	MJ
TL82-389		58.6	48.1	79	1	1	62.5	105	5	4	105	105	105	105	105	105	105	MI	MJ
TL82-390		60.0	52.1	88	1	1	62.5	110	6	5	110	110	110	110	110	110	110	MI	MJ
TL82-391		62.2	52.4	90	1	1	63.5	100	5	5	100	100	100	100	100	100	100	MI	MJ
TL82-392		59.8	46.5	83	1	1	60.5	95	5	5	95	95	95	95	95	95	95	MI	MJ
TL82-393		60.8	54.9	87	1	1	62.5	100	5	5	100	100	100	100	100	100	100	MI	MJ
TL82-394		59.0	51.5	84	1	1	63.5	105	4	3	105	105	105	105	105	105	105	MI	MJ
TL82-395		61.4	51.8	82	1	1	62.5	95	2	2	95	95	95	95	95	95	95	MI	MJ
TL82-396		58.7	43.7	69	1	1	63.0	110	2	5	110	110	110	110	110	110	110	MI	MJ
TL82-397		60.6	50.5	84	1	1	66.0	95	5	5	95	95	95	95	95	95	95	MI	MJ
TL82-398		60.6	54.1	82	1	1	63.5	105	5	5	105	105	105	105	105	105	105	MI	MJ
TL82-399		61.3	46.5	79	1	1	66.0	115	3	3	115	115	115	115	115	115	115	MI	MJ
TL82-400		59.0	47.8	79	1	1	64.5	110	5	5	110	110	110	110	110	110	110	MI	MJ
TL82-401		61.4	51.0	84	1	1	65.0	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-402		59.7	39.5	72	1	1	65.0	95	2	2	95	95	95	95	95	95	95	MI	MJ
TL82-403		60.6	46.1	75	1	1	61.5	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-404		62.4	52.6	88	1	1	64.5	105	3	3	105	105	105	105	105	105	105	MI	MJ
TL82-405		60.2	50.0	80	1	1	64.5	105	2	3	105	105	105	105	105	105	105	MI	MJ
TL82-406		61.6	50.0	84	1	1	63.0	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-407		61.8	55.2	90	1	1	61.0	100	2	2	100	100	100	100	100	100	100	MI	MJ
TL82-408		60.2	45.5	84	1	1	61.0	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-409		61.3	56.8	90	1	1	63.5	100	3	3	100	100	100	100	100	100	100	MI	MJ
TL82-410		61.4	55.5	90	1	1	62.5	110	1	4	110	110	110	110	110	110	110	MI	MJ
TL82-411		61.4	59.9	92	1	1	63.5	110	1	4	110	110	110	110	110	110	110	MI	MJ
TL82-412																			

TABLE 37 (Cont.)

QUALITY DATA OF DURUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IUE LAKE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG	X	WHT PNO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	WP	SM	TW	KW	TX	SX	DU	SK	SP	VT	FR	DEFICIENCIES
TL82-413	61.3	54.6	90	1	13.4	13.4	60.5	100	3	3	3	60.5	100	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-414	62.1	58.8	91	1	13.2	13.2	65.5	110	3	3	3	65.5	110	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MI
TL82-415	61.8	56.8	90	1	13.1	13.1	65.5	110	3	3	3	65.5	110	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MI
TL82-416	61.4	55.2	92	1	13.6	13.6	64.0	105	3	3	3	64.0	105	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-417	61.1	57.3	91	1	14.2	14.2	64.5	110	3	3	3	64.5	110	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-418	60.8	58.1	92	1	14.4	14.4	63.5	105	3	3	3	63.5	105	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-419	60.3	52.1	87	1	12.8	12.8	53.5	90	3	3	3	53.5	90	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-420	62.2	56.2	90	1	12.7	12.7	63.5	100	5	5	5	63.5	100	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-421	62.4	55.6	90	1	13.6	13.6	63.0	100	4	4	4	63.0	100	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-422	61.8	53.2	86	1	13.4	13.4	63.5	105	5	5	5	63.5	105	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-423	61.3	55.6	88	1	13.1	13.1	63.5	110	4	4	4	63.5	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-424	61.0	59.5	92	1	14.1	14.1	62.0	110	3	3	3	62.0	110	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-425	59.4	47.6	77	1	13.4	13.4	60.0	110	5	5	5	60.0	110	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-426	58.6	46.9	60	2	13.6	13.6	60.0	110	4	4	4	60.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-427	61.0	43.3	59	1	13.1	13.1	60.0	100	4	4	4	60.0	100	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-428	59.0	47.1	66	2	13.6	13.6	60.0	125	4	4	4	60.0	125	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-429	59.8	44.4	64	1	12.7	12.7	62.5	105	5	5	5	62.5	105	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-430	61.9	49.3	81	1	14.2	14.2	61.5	115	3	3	3	61.5	115	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-431	61.8	47.1	76	1	12.9	12.9	60.0	115	5	5	5	60.0	115	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-432	61.9	45.0	68	1	13.3	13.3	59.0	115	5	5	5	59.0	115	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-433	61.0	49.5	79	1	13.0	13.0	54.5	100	4	4	4	54.5	100	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-434	61.3	47.6	67	2	13.4	13.4	58.5	105	5	5	5	58.5	105	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-435	60.3	45.5	76	1	12.9	12.9	61.5	115	3	3	3	61.5	115	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-436	59.7	47.1	70	1	13.0	13.0	60.5	105	4	4	4	60.5	105	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-437	59.0	37.9	54	2	13.1	13.1	59.0	110	4	4	4	59.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-438	61.1	47.4	78	1	13.9	13.9	60.0	110	4	4	4	60.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-439	61.0	47.6	73	1	12.9	12.9	60.0	110	4	4	4	60.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-440	59.5	43.5	65	1	13.3	13.3	58.0	105	5	5	5	58.0	105	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	MJ
TL82-442	60.6	40.5	66	2	13.1	13.1	60.0	110	4	4	4	60.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	MJ
TL82-443	63.7	52.9	91	1	13.8	13.8	61.5	115	3	3	3	61.5	115	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ
TL82-444	62.2	52.6	86	1	14.8	14.8	62.0	115	3	3	3	62.0	115	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	MJ

DEFICIENCIES  
 TW KW SM WP TX SX DU SK SP VI FR  
 AVG OF STANDARDS 62.7 44.2 1 14.1 : 69.0 105 : : :  
 MINOR FAULTING VALUES 60.5 42.1 6 12.5 : 66.0 95 : 11.5 : :  
 MAJOR FAULTING VALUES 59.6 39.1 11 11.5 : 65.0 90 : 11.0 : :  
 \*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

QUALITY DATA OF DURUM SAMPLES 1982 CRCP

TABLE 38

STATE=CALIFORNIA STATION=IULELAKE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	LG	SM	WHT PRO	EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	**	TW	RW	SM	WP	TX	SX	DU	SK	SP	VI	FR
MDD DC	5	63.4	49.0	85	1	12.2	.	58.0	100	6	.	.	.	.	.	.	.	3	.	MI	.	.	.	.	.	.	.	.	.	.
TL82-2110		61.6	50.5	80	1	10.8	.	59.5	105	4	.	.	.	.	.	.	.	3	.	MJ	.	.	.	.	.	.	.	.	.	.
TL82-2111		63.0	56.5	91	1	11.6	.	59.5	110	3	.	.	.	.	.	.	.	3	.	MI	.	.	.	.	.	.	.	.	.	.
TL82-2112		62.1	52.6	85	1	11.6	.	58.0	105	4	.	.	.	.	.	.	.	3	.	MI	.	.	.	.	.	.	.	.	.	.
TL82-2113		61.4	51.3	74	1	10.5	.	60.5	95	3	.	.	.	.	.	.	.	2	.	MJ	.	.	.	.	.	.	.	.	.	.
TL82-2114		62.6	52.4	87	1	11.7	.	59.5	85	5	.	.	.	.	.	.	.	1	.	MI	.	.	.	.	.	.	.	.	.	.
TL82-2115		62.4	53.8	88	1	10.5	.	58.5	95	1	.	.	.	.	.	.	.	1	.	MJ	.	.	.	.	.	.	.	.	.	.
TL82-2116		60.5	58.5	90	1	10.4	.	61.0	100	4	.	.	.	.	.	.	.	2	.	MI	.	.	.	.	.	.	.	.	.	.

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

QUALITY DATA OF DUKUM SAMPLES 1982 CROP  
 STATE=CALIFORNIA STATION=IVLELAKE NURSERY=PRELIMINARY

TABLE 39

VARIETY	STD	TW	1000 KWT	LG	SH	WHT PHD	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
MOD OC	S	63.4	49.3	86	1	12.9	.	56.5	100	4	.	.	.	.	.	.	.	.	MI	.	.	.	.	.	.	.	.	.	.
TL82-2125		60.8	66.7	90	1	11.6	.	60.5	95	6	.	.	.	.	.	.	.	4	MI	.	.	MI	.	.	.	.	.	.	.
TL82-2126		62.7	52.6	87	1	11.6	.	57.0	100	4	.	.	.	.	.	.	.	3	.	.	.	MI	.	.	.	.	.	.	.
TL82-2127		62.7	53.2	89	1	12.5	.	56.5	85	6	.	.	.	.	.	.	.	1	.	.	.	MI	.	.	.	.	.	.	.
TL82-2128		61.8	52.6	77	1	11.8	.	60.0	95	3	.	.	.	.	.	.	.	3	.	.	.	MI	.	.	.	.	.	.	.
TL82-2129		61.6	51.0	81	1	12.2	.	57.5	100	4	.	.	.	.	.	.	.	3	.	.	.	MI	.	.	.	.	.	.	.
TL82-2130		63.5	51.5	93	1	12.3	.	56.5	110	3	.	.	.	.	.	.	.	3	.	.	.	MI	.	.	.	.	.	.	.

DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE

DEFICIENCIES

TX SX DU SK SP VI FR

MI MI MI MI MI MI MI

NJ

TABLE 40

## QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATE=IOWA STATE=ILLINOIS STATE=INDIANA STATE=MISSISSIPPI STATE=NEBRASKA STATE=NEW JERSEY STATE=NEW YORK STATE=OHIO STATE=OKLAHOMA STATE=OREGON STATE=PENNSYLVANIA STATE=TEXAS STATE=UTAH STATE=VERMONT STATE=WISCONSIN STATE=WYOMING

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PHO	TOT EXT	SEMO EXT	DUS	MX	SPK	SEMO MIN	FALL NO	PRO	VI	FIRM	RES	VALU	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR
MODOC	S	62.9	49.8	87	1	14.1	54.0	100	7	7	54.0	100	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
TL82-2131		61.6	49.0	75	1	11.9	54.5	105	5	5	54.5	105	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
TL82-2142		61.1	47.8	75	1	12.8	54.0	110	4	4	54.0	110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TL82-2143		62.5	55.2	90	1	13.3	54.0	105	3	3	54.0	105	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
TL82-2144		61.6	53.5	85	1	13.2	56.5	105	4	4	56.5	105	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TL82-2145		60.3	42.6	64	2	12.8	55.0	100	3	3	55.0	100	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
TL82-2146		63.4	53.5	86	1	13.1	54.0	85	7	7	54.0	85	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
TL82-2147		62.9	54.6	90	1	13.2	53.0	95	4	4	53.0	95	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TL82-2148		61.1	59.5	90	1	12.9	58.5	105	6	6	58.5	105	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

## DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE. 2=LITTLE PROMISE. 3=SOME PROMISE. 4=GOOD PROMISE

TABLE 41

## QUALITY DATA OF DURUM SAMPLES 1982 CROP

STATE=CALIFORNIA STATION=IMLELAKE NURSERY=PRELIMINARY

VARIETY	STD	TW	1000 KWT	% LG-SM	WHT PRO	TOT EXT	SEMO EXT	DUS	MX	SPK	MIN	FALL NO	SEMO PRO	VI	FIRM	RES	VALU	**	TW	KW	SM	WP	TX	SX	DU	SK	SP	VI	FR	DEFICIENCIES
MODOC	S	63.0	46.3	80	1	13.9	54.0	105	6	.	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2157		61.4	59.9	88	1	13.3	59.0	105	7	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2158		62.6	53.5	85	1	13.2	54.5	100	5	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2159		62.2	54.1	90	1	13.3	57.0	85	8	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2160		60.0	48.5	67	1	13.6	56.0	100	4	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2161		61.9	54.9	86	1	14.0	57.5	110	5	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2162		62.6	55.9	92	1	14.0	58.0	110	4	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.
TL82-2163		61.8	47.4	73	1	13.3	55.0	110	5	.	.	.	.	.	.	.	4	.	.	.	.	.	.	.	.	.	.	.	.	.

NJ

MI

## DEFICIENCIES

AVG OF STANDARDS

MINOR FAULTING VALUES

MAJOR FAULTING VALUES

\*\*EVALUATION 1=NO PROMISE, 2=LITTLE PROMISE, 3=SOME PROMISE, 4=GOOD PROMISE





